## RAVI MATHS TUITION CENTER, NEAR VILLIVAKKAM RLY STATION, CHENNAI – 82. PH - 8056206308

#### MCQ BB

12th Standard

	Biology
	$325 \times 1 = 325$
	In which type of parthenogenesis are only males produced?  (a) Arrhenotoky (b) Thelytoky (c) Amphitoky (d) Both a and b
2)	Animals giving birth to young ones: (a) Oviparous (b) Oviviviparous (c) Viviparous (d) Both a and b
3)	The mode of reproduction in bacteria is by  (a) Formation of gametes (b) Endospore formation (c) Conjugation (d) Zoospore formation
4)	In which mode of reproduction variations are seen (a) Asexual (b) Parthenogenesis (c) Sexual (d) Both a and b
5)	Assertion and reasoning questions:
	In each of the following questions there are two statements. One is assertion (A) and other is
	reasoning (R). Mark the correct answer as
	<b>Assertion:</b> In bee society, all the members are diploid except drones.
	Reason: Drones are produced by parthenogenesis
	(a) If both A and R are true (b) If both A and R are true but R (c) If A is (d) If both A
	and R is correct explanation is not the correct explanation for A true but R is and R are
6)	for A false false
U)	Assertion and reasoning questions:  In each of the following questions there are two statements. One is assertion (A) and other is
	reasoning (R). Mark the correct answer as
	Assertion: Offsprings produced by asexual reproduction are genetically identical to the parent.
	Reason: Asexual reproduction involves only mitosis and no meiosis
	(a) both A and R are true and (b) If both A and R are true but R (c) If A is (d) If both A
	R is correct explanation for A is not the correct explanation for A true but R is and R are
7)	false false.
′)	Assertion and reasoning questions:  In each of the following questions there are two statements. One is assertion (A) and other is
	reasoning (R). Mark the correct answer as
	Assertion: Viviparous animals give better protection to their off springs.
	Reason: They lay their eggs in the safe places of the environment
	(a) If both A and R are true (b) If both A and R are true but R (c) If A is (d) If both A
	and R is correct explanation is not the correct explanation for A true but R is and R are
67	for A false false
0)	The mature sperms are stored in the  (a) Seminiferous tubules  (b) Vas deferens  (c) Epididymis  (d) Seminal vesicle
9)	The male sex hormone testosterone is secreted from
	(a) Sertoli cells (b) Leydig cell (c) Epididymis (d) Prostate gland
10	) The glandular accessory organ which produces the largest proportion of semen is
11	(a) Seminal vesicle (b) Bulbourethral gland (c) Prostate gland (d) Mucous gland
11	The male homologue of the female clitoris is  (a) Scrotum  (b) Peni  (c) Urethra  (d) Testis
12	The site of embryo implantation is the
	(a) Uterus (b) Peritoneal cavity (c) Vagina (d) Fallopian tube
13	The foetal membrane that forms the basis of the umbilical cord is
	(a) Allantois (b) Amnion (c) Chorion (d) Yolk sac
14	The most important hormone in intiating and maintaining lactation after birth is  (a) Costragon (b) FSII (c) Prolecting (d) Overtaging
15	(a) Oestrogen (b) FSH (c) Prolactin (d) Oxytocin ) Mammalian egg is
13	(a) Mesolecithal and non (b) Microlecithal and non (c) Alecithal and non (d) Alecithal and
	cleidoic cleidoic cleidoic cleidoic
16	The process which the sperm undergoes before penetrating the ovum is  (a) Spermiation (b) Cortical reaction (c) Spermiogenesis (d) Capacitation
17	The milk secreted by the mammary glands soon after child birth is called
	(a) Mucous (b) Colostrum (c) Lactose (d) Sucrose
18	) Colostrum is rich in
10	(a) Ig E (b) Ig A (c) Ig D (d) Ig M
19	The Androgen Binding Protein (ABP) is produced by

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<ul> <li>(a) Leydig cells</li> <li>(b) Hypothalamus</li> <li>(c) Sertoli cells</li> <li>(d) Pituitary gland</li> </ul> 20) Which one of the following menstrual irregularities is correctly matched? <ul> <li>(a)</li> <li>(b) Amenorrhoea -</li> <li>(c) Dysmenorrhoea -</li> <li>(d) Oligomenorrhoea -</li> </ul> Menorrhagia - absence of menstruation irregularity of menstruation painful menstruation excessive  21) Find the wrongly matched pair
<ul> <li>(a) Bleeding phase- fall in</li> <li>(b) Follicular phase-</li> <li>(c) Luteal phase -</li> <li>(d) Ovulatory oestrogen and progesterone rise in oestrogen rise in FSH level phase - LH surge</li> <li>22) A – In human male, testes are extra abdominal and lie in scrotal sacs.</li> <li>R – Scrotum acts as thermoregulator and keeps temperature lower by 2oC for normal sperm production</li> </ul>
<ul> <li>(a) A and R are true, R is the correct explanation of A correct explanation of A correct explanation of A R is false R are false</li> <li>23) A – Ovulation is the release of ovum from the Graafian follicle.  R – It occurs during the follicular phase of the menstrual cycle.  (a) A and R are true, R is the (b) A and R are true, R is not the (c) A is true, (d) Both A and correct explanation of A correct explanation of A R is false R are false</li> <li>24) A – Head of the sperm consists of acrosome and mitochondria.  R – Acrosome contains spiral rows of mitochondria.  (a) A and R are true, R is the (b) A and R are true, R is not the (c) A is true, (d) Both A and correct explanation of A R is false R are false</li> </ul>
25) Which of the following is correct regarding HIV, hepatitis B, gonorrhoea and trichomoniasis?  (a) Gonorrhoea is a (b) Trichomoniasis is a  (b) HIV is a  (c) HIV is a  (d) Hepatitis B is  (e) HIV is a  (f) Hepatitis B is  (g) HIV is a  (h) Hepatitis B is  (h) Hep
26) Which one of the following groups includes sexually transmitted diseases caused by bacteria only?  (a) Syphilis, (b) Syphilis, (c) Syphilis, (d) Syphilis, gonorrhoea and chlamydiasis and gonorrhoea and trichomoniasis and candidiasis gonorrhoea trichomoniasis pediculosis  27) Identify the correct statements from the following  (a) (b) Gonorrhoea is caused (c) The incubation period for Chlamydiasisby a spirochaete syphilis is is 2 to 14 days in gonorrhoea are easily is a viral bacterium, Treponema males and 7 to 21 days in cured with antibiotics
disease palladium females  28) A contraceptive pill prevents ovulation by  (a) blocking (b) inhibiting release (c) stimulating release (d) causing immediate fallopian tube of FSH and LH of FSH and LH degeneration of released ovum.  29) The approach which does not give the defined action of contraceptive is  (a) Hormonal contraceptive-(b) Vasectomy- (c) Barrier (d) Intra uterine device-Increases Prevents entry of sperms, Prevents method-phagocytosis of sperms, suppresses prevent ovulation and spermatogenesis Prevents sperm motility and fertilizing fertilization fertilization capacity of sperms
30) Read the given statements and select the correct option and vaults are made of rubber and are inserted into the female reproductive tract to cover the cervix before coitus.  Statement 2: They are chemical barriers of conception and are reusable.  (a) Both statements 1 and 2 are(b) Both statements 1 and 2 are (c) Statement 1 (d) Both correct and statement 2 is the correct but statement 2 is not the is correct but statements 1 correct explanation of correct explanation of statement 2 is and 2 are
statement 1. 1. incorrect incorrect  31) Match column I with column II and select the correct option from the codes given below.  Column I  A. Copper releasing IUD (i) LNG-20  B. Hormone releasing (ii) Lippes loop IUD  C. Non medicated IUD (iii) Saheli  D. Mini pills (iv) Multiload-375  (a) A-(iv), B-(ii), C-(i),(b) A-(iv), B-(i), C-  (b) A-(i), B-(iv), C-(ii),(d) A-(iv), B-(i), C-(ii),  (c) A-(i), B-(iv), C-(ii),(d) A-(iv), B-(i), C-(ii),  (d) A-(iv), B-(ii), C-(ii), C-(iii), C-(iii), C-(iii), C-(iii), C-(iii), C-(iii), C-(iii), C-(iii), C-(iii), C-(i
D-(iii) D-(iii) D-(iii)  32) Select the incorrect action of hormonal contraceptive pills from the following  (a) Inhibition of (b) (c) Changes in cervical mucus (d) Alteration in uterine spermatogenesis. Inhibition impairing its ability to allow passage endometrium to make it

and transport of sperms

unsuitable for implantation

of ovulation

ov	rulation			
	ore common in males bed			
	acter (b) Dominant cha	* *	* *	
carried by Y-	carried by Y-	carried by X	•	
chromosome	chromosome	chromosom	e chromosome	
	in man is controlled by	( ) 6 1:1 1	(1) \$71' 1 1	
(a) Multiple alleles	` '	(c) Sex linked g		
	i family have blood grou	ips A, AB and B. v	Vhat could be the genotypes of	
their parents?	(b) I <sup>A</sup> I <sup>o</sup> and I <sup>B</sup> I <sup>o</sup>	(c) I <sup>B</sup> I <sup>B</sup> and I <sup>A</sup>	I <sup>A</sup> I <sup>A</sup> (d) I <sup>A</sup> I <sup>A</sup> and ii	
(a) I <sup>A</sup> I <sup>B</sup> and ii	. ,	(c) I' I' and I'	(d) 1 <sup>2</sup> 1 <sup>2</sup> and 11	
36) Which of the follow		one (a) Multiple	allalas (d) A dimlaid arramism	
			alleles (d) A diploid organism ent loci has only two alleles out	
			ome of many in the population	
_			le from the parental combination	
AxB?	wing phenotypes in the j	progerly are possion	ie from the parental comomation	
(a) A and B only	(b) A,B and AB on	ly (c) AB o	only (d) A,B,AB and O	
•			geny of the parental genotypic	
combination I <sup>A</sup> I <sup>O</sup> X		possione in the prog	seny of the parental genetypic	
(a) AB	(b) O	(c) A	(d) B	
* *	( )	( )	g of a parental combination	
DdXDd (both Rh pe	<u> </u>	are empling		
\ 1	,	About 3/4 will be I	Rh (d) About one fourth will be	
		gative	Rh negative	
40) What can be the bl	ood group of offspring v	when both parents l	have AB blood group?	
		c) A, B, AB and O		
41) If the childs blood	group is 'O' and fathers	blood group is 'A'	and mother's blood group is 'B'	
the genotype of the				
(a) $I^A I^A$ and $I^B I^O$	(b) I <sup>A</sup> I <sup>o</sup> and I <sup>B</sup> I <sup>o</sup>	(c) I <sup>A</sup> I <sup>o</sup> and		
	ermination and XY type			
			omogamety (d) Both (b) and (c)	
43) In an accident ther	e is great loss of blood a	nd there is no time	to analyse the blood group	
which blood can be				
(a) 'O' and Rh	(b) 'O' and Rh	(c) 'B' and Rh		
negative	positive	negative	positive	
		is carrier for colou	urblindness, the probability of the	
child being colourb		(-) 1000/	(1) 750/	
(a) 25%	(b) 50%	(c) 100%	(d) 75%	
	e <mark>n a col</mark> ourblind man and hters(b) 50% carrier da		produces (d) All carrier	
and normal sons	50% normal daugh		% normal sons offsprings	
			nce of an extra chromosome	
number	netic disorder winen is e	aused by the presen	nee of an extra enfontosome	
(a) 20	(b) 21	(c) 4	(d) 23	
	ome is characterized by		(-)	
(a) XYY	(b) XO	(c) XXX	(d) XXY	
48) Females with Turn	` '			
	b) Rudimentary ovaries	(c) Underdevel	oped breasts (d) All of these	
49) Pataus' syndrome		( )	1	
(a) 13-Trisomy	(b) 18-Trisormy	(c) 21-Trisormy	(d) None of these	
•	r of Modern Eugenics m	• •		
	-	ransis Galton	(d) Karl pearson	
* *			ons to marry early and produce	
large number of chi	-		- •	
ē		cs (c) Positive eu	thenics (d) Positive euphenics	
52) Thedeals	with the control of seve	ral inherited humar	n diseases especially inborn errors	
of metabolism				
(a) Euphenics	(b) Eugenics	(c) Euthenics	(d) All of these	
53) "Universal Donor"	and "Universal Recipie	ents" blood group a	reandrespectively	
(a) AB, O	(b) O, AB	(c) A, B	(d) B, A	
•	sex determination occur			
(a) Fishes	(b) Reptiles	(c) Birds	(d) All of these	

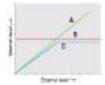
55) Co-dominant blood group is	(a) D	(4), (2)	
(a) A (b) AB	(c) B	(d) O	
56) Which of the following is incorrect			
(a) It occurs in birds (b) Females		le produce two (d) It occurs in	
<u> </u>		gametes gypsy moth	
57) Hershey and Chase experiment wi			
(a) Protein gets into the (b) DNA		` /	
bacterial cells genetic m	•	ır transformation	
58) DNA and RNA are similar with re			
(a) Thymine (b) A single- (c)		The same sequence of	
as a nitrogen stranded helix suga		cleotides for the amino acid	
	_	enyl alanine	
59) A mRNA molecule is produced by		(1) T 1 1	
(a) Replication (b) Transcr	• • •	* *	
60) The total number of nitrogenous b			
(a) 3.5 million (b) 3500	× /	(d) 3.1 billion	
61) E. coli cell grown on <sup>15</sup> N medium		<u> </u>	
generations. DNA extracted from t	2		
gradient. What density distribution			
(a) One high and one (b) One in			
low density band density bar	•	intermediate density band	
62) What is the basis for the difference	e in the synthesis of the leading	g and lagging strand of DNA	
molecules?			
	gase (c) DNA polymerase ca		
replication occurs only works only			460
	ction the 3' end of the growin		
molecules	stand.	5' end	
63) Which of the following is the corr			
(a) Transcription, (b) Transc		(d) Replication,	
Translation, Replication Replication Translation		Transcription, Translation	
Replication Translation 64) Which of the following statements	1		
(a) Unwinding of (b) Replication			
(a) Unwinding of (b) Replication	(c) Process is known a	s semi (a) Complementary	
DNA molecule occurs as each	hase conservative replication	` /	
DNA molecule occurs as each		n because base pairs are held	
occurs as hydrogen is paired with	one old strand is conse	n because base pairs are held rved in together with	
occurs as hydrogen is paired with		n because base pairs are held	
occurs as hydrogen is paired with bonds break. another exactly it	one old strand is consecutive the new molecule.	n because base pairs are held rved in together with hydrogen bonds	
occurs as hydrogen is paired with bonds break. another exactly it  65) Which of the following statements	one old strand is conservable the new molecule.	n because base pairs are held rved in together with hydrogen bonds ation in eukaryotes?	
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(a) Natural selection(b) induced mutation(c) reproductive isolation(d) geographical isolation	
75) Darwin's finches are an excellent example of	
(a) connecting links (b) seasonal migration (c) adaptive radiation (d) parasitism	
76) Who proposed the Germplasm theory?	
(a) Darwin (b) August Weismann (c) Lamarck (d) Alfred Wallace	
77) The age of fossils can be determined by	
(a) electron microscope (b) weighing the fossils (c) carbon dating (d) analysis of bones	
78) Fossils are generally found in	
(a) igneous rocks (b) metamorphic rocks (c) volcanic rocks (d) sedimentary rocks	
79) Evolutionary history of an organism is called (a) ancestry (b) ontogeny (c) phylogeny (d) paleontology	
80) The golden age of reptiles was	
(a) Mesozoic era (b) Cenozoic era (c) Paleozoic era (d) Proterozoic era	
81) Which period was called "Age of fishes"?	
(a) Permian (b) Triassic (c) Devonian (d) Ordovician	
82) Modern man belongs to which period?	
(a) Quaternary (b) Cretaceous (c) Silurian (d) Cambrian	
83) The Neanderthal man had the brain capacity of	
(a) 650 – 800cc (b) 1200cc (c) 900cc (d) 1400cc	
84) According to Darwin, the organic evolution is due to	
(a) (b) (c) Competition (d) Reduced feeding efficiency in one Intraspecific Interspecific within closely related species due to the presence of interfering	
competition competition species. species.	
85) A population will not exist in Hardy- Weinberg equilibrium if	
(a) Individuals mate (b) There are no (c) There is no (d) The population is	
selectively mutations migration large	
86) A 30 year old woman has bleedy diarrhoea for the past 14 hours, which one of the following	
organisms is likely to cause this illness?	
(a) Streptococcus (b) Clostridium (c) Shigella (d) Salmonella pyogens difficile dysenteria enteritidis	
87) Exo-erythrocytic schizogony of Plasmodium takes place in	
(a) RBC (b) Leucocytes (c) Stomach (d) Liver	
88) The sporozoites of Plasmodium vivax are formed from	
(a) Gametocytes (b) Sporoblasts (c) Oocysts (d) Spores	
89) Amphetamines are stimulants of the CNS, whereas barbiturates are	
(a) CNS stimulant (b) both a and b (c) hallucinogenic (d) CNS depressants	
90) The Athlete's foot disease in human is caused by	
(a) Bacteria (b) Fungi (c) Virus (d) Protozoan  91) Choose the correctly match pair.	
(a) Amphetamines (b) LSD (c) Heroin (d) Benzodiazepine - Pain	
- Stimulant - Narcotic - Psychotropic killer	
92) Cirrhosis of liver is caused by chronic intake of	
(a) Opium (b) Alcohol (c) Tobacco (d) Cocaine	
93) The sporozoite of the malarial parasite is present in	
(a) saliva of infected female (b) RBC of human (c) Spleen of (d) Gut of female  Anopheles mosquito suffering from malaria. infected humans Anopheles mosquito	
Anopheles mosquito suffering from malaria. infected humans Anopheles mosquito  94) Paratope is an	
(a) Antibody binding (b) Antibody binding (c) Antigen binding (d) Antigen binding	
site on variable regions site on heavy regions site on variable regions site on heavy regions	
95) Allergy involves	
(a) IgE (b) IgG (c) IgA (d) IgM	
96) Spread of cancerous cells to distant sites is termed as	
(a) Metastasis (b) Oncogenes (c) Proto-oncogenes (d) Malignant neoplasm	
97) AIDS virus has	
(a) Single stranded (b) Double stranded (c) Single stranded (d) Double stranded RNA RNA DNA DNA	
98) B cells that produce and release large amounts of antibody are called	
(a) Memory cells (b) Basophils (c) Plasma cells (d) killer cells	
99) Which of the following microorganism is used for production of citric acid in industries?	
(a) Lactobacillus bulgaris(b) Penicillium citrinum(c) Aspergillus niger(d) Rhizopus nigricans	
100) Which of the following pair is correctly	
(a) Acetobacter aceti (b) Methanobacterium (c) Penicilium notatum (d) Saccharomyces	
- Antibiotics - Lactic acid - Acetic acid cerevisiae - Ethanol	

101) The most common substrate used in distilleries for the production of ethanol is
(a) Soyameal (b) Groundgram (c) Molasses (d) Corn meal
102) Cry toxins obtained from Bacillus thuringiensis are effective against for  (a) Mosquitoes (b) Flies (c) Nematodes (d) Bollworms
103) Cyclosporin – A is an immunosuppressive drug produced from
(a) Aspergillus (b) Manascus (c) Penicillium (d) Trichoderma
niger purpureus notatum polysporum
104) Which of the following bacteria is used extensively as a bio-pesticide?  (a) Bacillus  (b) Bacillus  (c) Lactobacillus  (d) Streptococcus
thurigiensis subtilis acidophilus lactis
105) Which of the following is not involved in nitrogen fixation?
(a) Pseudomonas (b) Azotobacter (c) Anabaena (d) Nostac 106) CO <sub>2</sub> is not released during
(a) Alcoholic (b) Lactate (c) Aerobic respiration in (d) Aerobic respiration in
fermentation fermentation animals plants
107) The purpose of biological treatment of waste water is to
(a) Reduce BOD (b) Increase BOD (c) Reduce sedimentation (d) Increase sedimentation 108) The gases produced in anaerobic sludge digesters are
(a) Methane, oxygen (b) Hydrogen sulphide, (c) Hydrogen (d) Methane,
and hydrogen sulphidemethane and sulphur sulphide, nitrogen and hydrogen sulphide
dioxide methane and CO <sub>2</sub> .
109) The first clinical gene therapy was done for the treatment of  (a) AIDS (b) Cancer (c) Cystic fibrosis (d) SCID
110) Dolly, the sheep was obtained by a technique known as
(a) Cloning by (b) Cloning without the (c) Cloning by tissue culture (d) Cloning by
gene transfer help of gametes of somatic cells nuclear transfer  111) The genetic defect adenosine deaminase deficiency may be cured permanently by
(a) Enzyme(b) periodic infusion of (c) administering (d) introducing bone marrow cells
replacementgenetically engineered adenosine producing ADA into embryo at an
therapy lymphocytes having ADA deaminase early stage of development.
112) How many amino acids are arranged in the two chains of Insulin
(a) Chain A has (b) Chain A has 21 and (c) Chain A has 21 and (d) Chain A has 12 and
12 and Chain B has 30 amino Chain B has 30 amino chain B has 20 amino acids acids.
113) PCR proceeds in three distinct steps governed by temperature, they are in order of
(a) Denaturation, (b) Synthesis, (c) Annealing, (d) Denaturation,
Annealing, Synthesis Annealing, Synthesis, Denaturation Synthesis, Annealing  Denaturation
114) Which one of the following statements is true regarding DNA polymerase used in PCR?
(a) It is used to ligate (b) It serves as a (c) It is isolated (d) d) It remains active at
introduced DNA in recipient selectable marker from a Virus a high temperature
cells 115) ELISA is mainly used for
(a) Detection of (b) Detection of (c) Selecting animals having (d) Selecting plants having
mutations pathogens desired traits desired traits
116) Transgenic animals are those which have  (a) Foreign DNA in (b) Foreign DNA in (c) Foreign RNA in (d) Foreign RNA in
some of their cells all their cells some of their cells all their cells
117) Recombinant Factor VIII is produced in the cells of the Chinese Hamster
(a) Liver cells (b) blood cells (c) ovarian cells (d) brain cells.
118) Vaccines that use components of a pathogenic organism rather than the whole organism are called
(a) Subunit recombinant (b) attenuated recombinant (c) DNA (d) conventional
vaccines vaccines vaccines
119) All populations in a given physical area are defined as
(a) Biome (b) Ecosystem (c) Territory (d) Biotic factors 120) Organisms which can survive a wide range of temperatuer are called
(a) Ectotherms (b) Eurytherms (c) Endotherms (d) Stenotherms
121) The interaction in nature, where one gets benefit on the expense of other is
(a) Predation (b) Mutualism (c) Amensalism (d) Commensalism
122) Predation and parasitism are which type of interactions?  (a) (+,+) (b) (+, O) (c) (,) (d) (+,)
123) Competition between species leads to

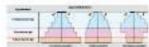
- (a) Extinction
  - (b) Mutation
- (c) Amensalism
- (d) Symbiosis

- 124) Which of the following is an r-species
  - (a) Human
- (b) Insects
- (c) Rhinoceros
- (d) Whale
- 125) Match the following and choose the correct combination from the options given below.
  - Column I A. Mutalism
- Column II
- 1. Lion and deer
- B. Commensalism2. Round worm and man
- C. Parasitism
- 3. Birds compete with squirrels for nuts
- D. Competition
- 4. Sea anemone on hermit crab
- E. Predation
- 5. Bernacles attached to Whales.
- 3, E-1
- (a) A-4, B-5, C-2, D-(b) A-3, B-1, C-4, D-(c) A-2, B-3, C-1, D-(d) A-5, B-4, C-2, D-2, E-5
  - 5, E-4
- 3, E-1
- 126) The figure given below is a diagrammatic representation of response of organisms to abiotic factors. What do A, B and C represent respectively.



<u>(a)</u>			(b)			(c)			(d)		
A	В	С	A	В	С	A	В	С	A	В	C
Conformer	Regulator	Partial Regulator	Regulatorr	Partial Regulator	Conformer	Partial Reg <mark>ulatori</mark>	Regulator	rConformer	Regulatorr	Conforme	Partial Regulatorr

- 127) The relationship between sucker fish and shark is
  - (a) Competition
- (b) Commensalism
- (c) Predation
- (d) Parasitism.
- 128) What type of human population is represented by the following age pyramid?



- (a) Vanishing population
- (b) Stable population
- (c) Declining population
- (d) Expanding population
- 129) Which of the following is correct for r-selected species
- (a) Large number of
- (b) large number of (c) small number of
- (d) small number of progeny with small size progeny with large size progeny with small size progeny with large size
- 130) Animals that can move from fresh water to sea called as
  - (a) Stenothermal
- (b) Eurythermal
- (c) Catadromous
- (d) Anadromous
- 131) Some organisms are able to maintain homeostasis by physical means
- (a) Conform
- (b) Regulate
- (c) Migrate
- (d) Suspend.
- 132) Which of the following region has maximum biodiversity
- (a) Taiga

(b) Tropical forest

- (c) Temperate rain forest
- (d) Mangroves
- 133) Conservation of biodiversity within their natural habitat is
- (a) Insitu
- (b) Exsitu
- (c) In vivo conservation
- (d) In vitro
- conservation conservation
- (a) Sanctuaries

- conservation
- 134) Which one of the following is not coming under insitu conservation
- (b) Natural parks
- (c) Zoological park
- (d) Biosphere reserve
- 135) Which of the following is considered a hotspots of biodiversity in India
- (a) Western ghats
- (b) Indo-gangetic plain
- (c) Eastern Himalayas (d) A and C
- 136) The organization which published the red list of species is
- (a) WWF
- (b) IUCN
- (c) ZSI
- (d) UNEP

- 137) Who introduced the term biodiversity?
- (a) Edward Wilson
- (b) Walter Rosen
- (c) Norman Myers
- (d) Alice Norman

Assertion and

- 138) Which of the following forests is known as the lungs of the planet earth?
  - (a) Tundra forest (b) Rain forest of north east India (c) Taiga forest (d) Amazon rain forest
- 139) Which one of the following are at high risk extinction due to habitat destruction
  - (a) Mammals
- (b) Birds
- (c) Amphibians
- (d) Echinoderms
- 140) Assertion: The Environmental conditions of the tropics are favourable for speciation and diversity of organisms.

Reason: The climate seasons, temperature, humidity and photoperiod are more or less stable and congenial.

- (a) Both Assertion and
- (b) Both Assertion and Reason are(c) Assertion (d) Both Reason are true and Reason true but Reason is not the correct is true, but explains Assertion correctly. explanation of Assertion.

1/30/2020 Preview Question Paper Reason is Reason are false. false 141) Right to Clean Water is a fundamental right, under the Indian Constitution (a) Article 12 (b) Article 21 (c) Article 31 (d) Article 41 142) With which of the following, the Agenda 21' of Rio Summit, 1992 is related to? (b) Combating the (c) Mitigation norms of (d) Technology transfer mechanism Sustainable consequences of Green House Gases to developing countries for 'cleandevelopmentpopulation (GHGs) emission energy' production 143) Which among the following awards instituted by the Government of India for individuals or communities from rural areas that have shown extraordinary courage and dedication in protecting Wildlife? (a) Indira Gandhi (b) Medini (c) Amrita Devi (d) Pitambar Pant National Award Paryavaran Puraskar Puruskar Yojana Bishnoi Award 144) The 'thickness' of Stratospheric Ozone layer is measured in/on: (a) Sieverts units (b) Dobson units (c) Melson units (d) Beaufort Scale 145) Which among the following is the most abundant Green-House-Gas (GHG) in the earth's atmosphere? (a) Carbon dioxide (b) Water Vapour (c) Sulphur Dioxide (d) Tropospheric Ozone 146) As per 2017 statistics, the highest per capita emitter of Carbon dioxide in the world is (d) Saudi Arabia (a) USA (b) China (c) Qatar 147) The use of microorganism metabolism to remove pollutants such as oil spills in the water bodies is known as (a) Biomagnification (b) Bioremediation (c) Biomethanation (d) Bioreduction 148) The Ozone Day is observed every year on September 16 as on this day in 1987 the was signed for launching efforts to arrest the depletion of the fragile ozone layer in the stratosphere that prevents the harmful ultra-violet rays of the sun from reaching the earth. Fill the correct word in blank. (a) Montreal Protocol (b) Geneva Protocol (c) Kyoto Protocol (d) Nagoya Protocol 149) Which among the following always decreases in a Food chain across tropic levels? (a) Number (b) Accumulated chemicals (c) Energy 150) In the E- waste generated by the Mobile Phones, which among the following metal is most abundant? (c) Palladium (d) Gold (a) Copper (b) Silver 151) The Hydrochlorofluorocarbons (HCFCs) are the compounds which have the following molecules: (b) Carbon (d) Fluorine (a) Hydrogen (c) Chlorine 152) SMOG is derived from: (a) Smoke (b) Fog (c) Both A and B (d) Only A 153) Excess of fluoride in drinking water causes: (a) Lung disease (b) Intestinal infection (c) Fluorosis (d) None of the above 154) Choose the correct statement from the following (a) Gametes are involved(b) Bacteria reproduce(c) Conidia formation is a (d) Yeast in asexual reproduction asexually by budding method of sexual reproduce by reproduction budding 155) An eminent Indian embryologist is (a) S.R.Kashyap (b) P.Maheswari (c) M.S. Swaminathan (d) K.C.Mehta 156) Identify the correctly matched pair (a) Tuber - Allium cepa (b) Sucker - Pistia (c) Rhizome - Musa (d) Stolon - Zingiber 157) Pollen tube was discovered by (a) J.G.Kolreuter (b) G.B.Amici (c) E.Strasburger (d) E.Hanning 158) Size of pollen grain in Myosotis (a) 10 micrometer (b) 20 micrometer (c) 200 micrometer (d) 2000 micrometer 159) First cell of male gametophyte in angiosperm is (c) Nucleus (a) Microspore (b) megaspore (d) Primary Endosperm Nucleus 160) Match the following I) External fertilization i) pollen grain

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161) Arrange the layers of anther wall from locus to periphery

(a) Epidermis, middle (b) Tapetum, middle (c) Endothecium,

layers, epidermis,

(a) I-iv;II-i;III-ii;IV-iii (b) I-iii;II-iv;III-i;IV-ii (c) I-iii;II-iv;III-ii,IV-i (d) I-iii;II-i;III-iv;IV-ii

epidermis, middle

(d) Tapetum, middle

layers endothecium

II) Androecium ii)anther wall III) Male gametophyte iii)algae IV) Primary parietal layer iv)stamens

layers, tapetum,

endothecium endothecium layers, tapetum 162) Identify the incorrect pair (a) sporopollenin (b) tapetum – nutritive (c) Nucellus – nutritive (d) obturator – directs - exine of pollen tissue for developing tissue for developing the pollen tube into grain microspores embryo 163) Assertion: Sporopollenin preserves pollen in fossil deposits Reason: Sporopollenin is resistant to physical and biological decomposition (a) assertion is true; (b) assertion is false; (c) Both Assertion and (d) Both Assertion and reason is false reason is true reason are not true reason are true. 164) Choose the correct statement(s) about tenuinucellate ovule (a) Sporogenous cell (b) Ovules have fairly (c) sporogenous cell(d) ovules have single layer is hypodermal large nucellus is epidermal of nucellus tissue 165) Which of the following represent megagametophyte (c) Nucellus (b) Embryo sac (a) Ovule (d) Endosperm 166) In Haplopappus gracilis, number of chromosomes in cells of nucellus is 4. What will be the chromosome number in Primary endosperm cell? (a) 8 (b) 12 (c) 6 (d) 2167) Transmitting tissue is found in (a) Micropylar region of (b) Pollen tube (c) Stylar region of (d) wall gynoecium Integument ovule 168) The scar left by funiculus in the seed is (d) hilum (a) tegmen (b) radicle (c) epicotyl 169) A Plant called X possesses small flower with reduced perianth and versatile anther. The probable agent for pollination would be (c) butterflies (a) water (b) air (d) beetles 170) Consider the following statement(s) i) In Protandrous flowers pistil matures earlier ii) In Protogynous flowers pistil matures earlier iii) Herkogamy is noticed in unisexual flowers iv) Distyly is present in Primula (a) i and ii are correct (b) ii and iv are correct (c) ii and iii are correct (d) i and iv are correct 171) Coelorhiza is found in (a) Paddy (b) Bean (c) Pea (d) Tridax 172) Parthenocarpic fruits lack (a) Endocarp (b) Epicarp (c) Mesocarp (d) seed 173) In majority of plants pollen is liberated at (a) 1 celled stage (b) 2 celled stage (c) 3 celled stage (d) 4 celled stage 174) Extra nuclear inheritance is a consequence of presence of genes in (a) Mitrochondria and (b) Endoplasmic reticulum (c) Ribosomes and (d) Lysososmes and chloroplasts and mitrochondria chloroplast ribosomes 175) In order to find out the different types of gametes produced by a pea plant having the genotype AaBb, it should be crossed to a plant with the genotype (a) aaBB (b) AaBB (c) AABB 176) How many different kinds of gametes will be produced by a plant having the genotype AABbCC? (a) Three (d) Two (b) Four 177) Which one of the following is an example of polygenic inheritance? (a) Flower colour in (b) Production of male (c) Pod shape in (d) Skin Colour in Mirabilis Jalapa honey bee garden pea 178) In Mendel's experiments with garden pea, round seed shape (RR) was dominant over wrinkled seeds (rr), yellow cotyledon (YY) was dominant over green cotyledon (yy). What are the expected phenotypes in the F2 generation of the cross RRYY x rryy? (b) Only wrinkled (c) Only wrinkled (d) Round seeds with yellow (a) Only round seeds with green seeds with yellow seeds with green cotyledons an wrinkled seeds with cotyledons cotyledons cotyledons yellow cotyledons 179) Test cross involves (a) Crossing between (b) Crossing (c) Crossing the F<sub>1</sub> hybrid (d) Crossing between between two F<sub>1</sub> with a double recessive two genotypes with two genotypes with recessive trait hybrids dominant trait genotype 180) In pea plants, yellow seeds are dominant to green. If a heterozygous yellow seed pant is crossed with a green seeded plant, what ratio of yellow and green seeded plants would you expect in F<sub>1</sub> generation? (a) 9:1 (b) 1:3 (c) 3:1 (d) 50:50

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181) The genotype of a plant showing the dominant phenotype can be determined  (a) Back cross (b) Test cross (c) Dihybrid corss (d) Pedigree analysis	
182) Select the correct statement from the ones given below with respect to dihydrid cross	
(a) Tightly linked (b) Tightly linked (c) Genes far apart (d) Genes loosely linked on	
genes on the same genes on the same on the same the same chromosomes show	
chromosomes show chromosomes show similar recombinations as the	
very few higher combinations very few tightly linked ones	
combinations recombinations	
183) Which Mendelian idea is depicted by a cross in which the F1 generation resembles both the	
parents	
(a) Incomplete (b) Law of (c) Inheritance of one (d) Co-dominance	
dominance dominance gene	
184) Fruit colour in squash is an example of	
(a) Recessive epistatsis (b) Dominant epistasis (c) Complementary genes (d) Inhibitory genes	
185) In his classic experiments on Pea plants, Mendel did not use	
(a) Flowering position (b) Seed colour (c) Pod length (d) Seed shape	
186) The epistatic effect, in which the dihybrid cross 9:3:3:1 between AaBb Aabb is modified as	
(a) Dominance of one (b) Interaction (c) Dominance of one (d) Interaction	
allele on another allele of between two alleles of allele to another alleles of between two alleles	
both loci different loci same loci of some loci	
187) In a test cross involving F1 dihybrid flies, more parental type offspring were produced than	
the recombination type offspring. This indicates	
(a) The two genes are (b) Chromosomes (c) The two genes are (d) Both of the	
located on two different failed to separate linked and present on the characters are controlled	
chromosomes during meiosis some chromosome by more than one gene	
188) The genes controlling the seven pea characters studied by Mendel are known to be located on	
how many different chromosomes?	
(a) Seven (b) Six (c) Five (d) Four	
(a) Seven (b) Six (c) 1 We (d) 1 out	
189) Which of the following explains how progeny can posses the combinations of traits that none	
189) Which of the following explains how progeny can posses the combinations of traits that none of the parent possessed?	
of the parent possessed?	
of the parent possessed? (a) Law of (b) Chromosome (c) Law of independent (d) Polygenic	
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List I	list II
A. A pair of chromosomes extra with diploid	i) monosomy
B. One chromosome extra to the diploid	ii) tetrasomy
C. One chromosome loses from diploid	iii) trisomy
D.Two individual chromosomes lose from diplo	oidiv) double monosomy

730/2020 Preview Question Paper
(a) A-i, B-iii, C-ii, D- (b) A-ii, B-iii, C-iv, D- (c) A-ii, B-iii, C-i, D- (d) A-iii, B-ii, C-i, D-iv iv iv
199) Which of the following sentences are correct?
1. The offspring exhibit only parental combinations due to incomplete linkage
2. The linked genes exhibit some crossing over in complete linkage
3. The separation of two linked genes are possible in incomplete linkage
4. Crossing over is absent in complete linkage
(a) 1 and 2 (b) 2 and 3 (c) 3 and 4 (d) 1 and 4
200) Accurate mapping of genes can be done by three point test cross because increases
(a) Possibility of (b) Possibility of (c) Possibility of (d) Possibility of
single cross over double cross over multiple cross over recombination frequency
201) Due to incomplete linkage in maize, the ratio of parental and recombinants are
(a) 50:50 (b) 7:1:1:7 (c) 96.4: 3.6 (d) 1:7:7:1
202) Genes G S L H are located on same chromosome. The recombination percentage is between
L and G is 15%, S and L is 50%, H and S are 20%. The correct order of genes is
(a) GHSL (b) SHGL (c) SGHL (d) HSLG
203) The point mutation sequence for transition, transition, transversion and transversion in DNA
are
(a) A to T, T to A, C to(b) A to G, C to T, C (c) C to G, A to G, T to(d) G to C, A to T, T to
G and G to C to G and T to A A and G to A A and C to G
204) If haploid number in a cell is 18. The double monosomic and trisomic number will be
(a) 35 and 37 (b) 34 and 37 (c) 37 and 35 (d) 17 and 19
205) Changing the codon AGC to AGA represents
(a) mis-sense mutation (b) non-sense mutation (c) frameshift mutation (d) deletion mutation
206) Assertion (A): Gamma rays are generally use to induce mutation in wheat varieties.
Reason (R): Because they carry lower energy to non-ionize electrons from atom
(a) A is correct. R is (b) A is correct. R is not (c) A is correct. R is (d) A and R
correct explanation of A correct explanation of A wrong explanation of A is wrong
207) How many map units separate two alleles A and B if the recombination frequency is 0.09?
(a) 900 cM (b) 90 cM (c) 9 cM (d) 0.9 cM
208) Restriction enzymes are  (a) Not always required in (b) Essential tools in (c) Nucleases that cleave (d) both b
(a) Not always required in (b) Essential tools in genetic engineering genetic engineering (c) Nucleases that cleave (d) both b  DNA at specific sites and c
209) Plasmids are
(a) circular protein (b) required by (c) tiny (d) confer resistance to
molecules bacteria bacteria antibiotics
210) EcoRI cleaves DNA at
(a) AGGGTT (b) GTATATC (c) GAATTC (d) TATAGC
211) Genetic engineering is
(a) making (b) hybridization of DNA (c) production of (d) making artificial limbs,
artificial of one organism to that of alcohol by using microdiagnostic instruments such as
genes. the others. organisms. ECG, EEG etc.,
212) Consider the following statements:
I. Recombinant DNA technology is popularly known as genetic engineering is a stream of
biotechnology which deals with the manipulation of genetic materials by man invitro
II. pBR322 is the first artificial cloning vector developed in 1977 by Boliver and Rodriguez
from E.coli plasmid
III. Restriction enzymes belongs to a classof enzymes called nucleases.
C hoose the correct option regarding above statements
(a) I & II (b) I & III (c) II & III (d) I,II & III
213) The process of recombinant DNA technology has the following steps
I. amplication of the gene
II. Insertion of recombinant DNA into the host cells
III. Cutting of DNA at specific location using restriction enzyme.
IV. Isolation of genetic material (DNA) Pick out the correct sequence of step for recombinant
DNA technology.
(a) ii, iii, iv, and i (b) iv, ii, iii, and i (c) i, ii, iii, and iv (d) iv, iii, i, and ii
214) Which one of the following palindromic base sequence in DNA can be easily cut at about the
middle by some particular restriction enzymes?
(a) 5' CGTTCG 3' (b) 5'GATATG 3' 3' (c) 5'GAATTC 3' 3' (d) 5'CACGTA 3' 3'
3' ATCGTA 5' CTACTA 5' CTTAAG 5' CTCAGT 5'
215) pBR 322, BR stands for
(a) Plasmid Bacterial (b) Plasmid Bacterial (c) Plasmid Boliver (d) Plasmid Baltimore

1.00/2020
Recombination Replication and Rodriguez and Rodriguez
216) Which of the following one is used as a Biosensors?
(a) Electrophoresis (b) Bioreactors (c) Vectors (d) Electroporation
217) Column A Column B
1 Exonuclease a. add or remove phosphate 2 Endonuclease b. binding the DNA fragments
3 Alkaline Phosphatase c. cut the DNA at terminus
4 Ligase d. cut the DNA at middle
(a) A) a b c d (b) B) c d b a (c) C) a c b d (d) D) c d a b
218) 'In which techniques Ethidium Bromide is used?
(a) Southern Blotting (b) Western Blotting (c) Polymerase Chain (d) Agrose Gel
techniques techniques Reaction Electroporosis
219) Assertion: Agrobacterium tumifaciens is popular in genetic engineering because this
bacteriumis associated with the root nodules of all cereals and pulse crops  Reason: A gene incorporated in the bacterial chromosomal genome gets atomatically
transferred to the cross with which bacterium is associated.
(a) Both assertion and reason are true. (b) Assertion is (c) Assertion is (d) Both assertion
But reason is correct explanation of true, but reason is false, but reason is and reason are
assertion. false. true false.
220) Which one of the following is not correct statement
(a) Ti plasmid (b) Multiple (c) Non viral method (d) Polylactic acid is a kind of transfection of Nucleic biodegradable and bioactive
top disease known as Polylinkeracid in cell thermoplastic.
221) An analysis of chromosomal DNA using the southern hybridisation technique does not use
(a) Electrophoresis (b) Blotting (c) Autoradiography (d) Polymerase Chain Reaction
222) An antibiotic gene in a vector usually helps in the selection of
(a) Competent cellsc (b) Transformed cells (c) Recombinant cells (d) None of the above
223) Some of the characteristics of Bt cotton are
(a) Long fibre (b) Medium yield, long (c) high yield and production of (d) High yield and resistant to fibre and resistant to toxic protein crystals which kill and resistant to
aphids beetle pests dipteran pests. ball worms
224) Totipotency refers to
(a) capacity to (b) capacity to generate a (c) capacity to (d) recovery of
generate genetically whole plant from any plant generate hybrid healthy plants from
identical plants. cell / explant. protoplasts. diseased plants.
225) Micro propagation involves  (a) vegetative (b) vegetative (c) vegetative (d) Non-vegetative
multiplication of multiplication of multiplication of multiplication of plants by
plants by using micro- plants by using small plants by using using microspores and
organisms. explants. microspores. megaspores.
226) Match the following:
Column A
Column B
Totipotency A) Reversion of mature cells into meristerm     Dedifferentiation B) Biochemical and structural changes of cells
3) Explant C) Properties of living cells develops into entire plant
4) Differentiation D) Selected plant tissue transferred to culture medium
(a) CADB (b) ACBD (c) BADC (d) DBCA
227) The time duration for sterilization process by using autoclave is minutes and the
temperature is
(a) 10 to 30 minutes (b) 15 to 30 minutes (c) 15 to 20 minutes (d) 10 to 20 minutes
and 125° C and 121° C and 125° C and 121° C
228) Which of the following statement is correct  (a) Agar is not  (b) Callus undergoes  (c) Surface sterilization of (d) P <sup>H</sup> of the
extracted from marine differentiation and explants is done by using culture medium
algae such as seaweeds produces somatic mercuric bromide is 5.0 to 6.0
embryoids.
229) Select the incorrect statement from given statement
(a) A tonic used for (b) Medicine used to treat (c) An anti malarial (d) Anti-cancinogenic
cardiac arrest is Rheumatic pain is drug is isolated from property is not seen in
obtained from Digitalis extracted from Capsicum Cinchona officinalis. Catharanthus roseus. purpuria annum
230) Virus free plants are developed from

(a) Organ culture (b) Meristem culture (c) Protoplast culture (d) Cell suspension culture	
231) The prevention of large scale loss of biological interity	
(a) Biopatent (b) Bioethics (c) Biosafety (d) Biofuel	
232) Cryopreservation means it is a process to preserve plant cells, tissues or organs	
(a) at very low (b) at very high (c) at very low (d) at very low	
temperature by temperature by using temperature of -196 by temperature by using	
using ether. liquid nitrogen using liquid nitrogen liquid nitrogen	
233) Solidifying agent used in plant tissue culture is	
(a) Nicotinic acid (b) Cobaltous chloride (c) EDTA (d) Agar	
234) Arrange the correct sequence of ecological hierarchy starting from lower to higher level.	
(a) Individual organism $\rightarrow$ (b) Landscape $\rightarrow$ (c) community $\rightarrow$ (d) Population $\rightarrow$	
Population Landscape $\rightarrow$ Ecosystem $\rightarrow$ Biome Ecosystem $\rightarrow$ organism $\rightarrow$ Biome	
Ecosystem $\rightarrow$ Biosphere Landscape $\rightarrow$ Landscape	
235) Ecology is the study of an individual species is called	
i) Community ecology	
ii) Autecology	
iii) Species ecology	
iv) Synecology	
(a) i only (b) ii only (c) i and iv only (d) ii and iii only	
236) A specific place in an ecosystem, where an organism lives and performs its functions is	
(a) habitat (b) niche (c) landscape (d) biome	
237) Read the given statements and select the correct option.	
i) Hydrophytes possess aerenchyma to support themselves in water.	Þ.
ii) Seeds of Viscum are positively photoblastic as they germinate only in presence of light.	
iii) Hygroscopic water is the only soil water available to roots of plant growing in soil as it is	
present inside the micropores.	
iv) High temperature reduces use of water and solute absorption by roots	
(a) i, ii, and iii only (b) ii, iii and iv (c) ii and iii only (d) i and ii only	
238) Which of the given plant produces cardiac glycosides?  (a) Calotropis (b) Acacia (c) Nepenthes (d) Utricularia	
239) Read the given statements and select the correct option.  i) Loamy soil is best suited for plant growth as it contains a mixture of silt, sand and clay.	
ii) The process of humification is slow in case of organic remains containing a large amount of	
lignin and cellulose.	
iii) Capillary water is the only water available to plant roots as it is present inside the	
micropores.	
iv) Leaves of shade plant have more total chlorophyll per reaction centre, low ratio of chl a and	
chl b are usually thinner leaves.	
(a) i, ii and iii only (b) ii, iii and iv only (c) i, ii and iv only (d) ii and iii only	
240) Read the given statements and select the correct option.	
Statement A : Cattle do not graze on weeds of Calotropis.	
Statement B: Calotropis have thorns and spines, as defense against herbivores.	
(a) Both (b) Statement A (c) Both statements A and B are(d) Both statements A and B	
statements A is correct but correct but statement B is not are correct and statement B is	
and B are statement B is the correct explanation of the correct explanation of	
incorrect. incorrect statement A. statement A.	
241) In soil water available for plants is	
(a) gravitational water (b) chemically bound water (c) capillary water (d) hygroscopic water	
242) Read the following statements and fill up the blanks with correct option.	
i) Total soil water content in soil is called	
ii) Soil water not available to plants is called	
iii) Soil water available to plants is called	
(a) (b) (c) (d)	
Holard Echard Chresard Echard Holard Chresard Echard Holard Chresard Echard	
243) Column I represent the size of the soil particles and Column II represents type of soil	
components. Which of the following is correct match for the Column I and Column II	
Column - I Column - II	
I) 0.2 to 2.00 mm i) Slit Soil	
II) Less than 0.002 ii) Clayey Soil	
III) 0.002 to 0.02 mm iii) Sandy Soil IV) 0.002 to 0.2 mm iv) Loamy Soil	
(a) (b) (c) (d) None of the above	

(c) 3 - 10%

(c) consumers

(d) 2-9%

(d) all of the above

(d) Forest ecosystem

(b) 2 - 10%

261) Which of the following ecosystem has the highest primary productivity?

(a) Pond ecosystem (b) Lake ecosystem (c) Grassland ecosystem (d)

(b) producers

(a) 2 - 8%

262) Ecosystem consists of

(a) decomposers

$\rightarrow$ Primary consumers $\rightarrow$ Secondary consumers $\rightarrow$ Primary Pri	$\rightarrow$ Producers $\rightarrow$
(a) it does not maintain (b) it shows patterns of (c) it explains stability in nature energy transfer interaction	ns species (d) b and c
(a) pyramid of (b) pyramid of number in (c) pyramid of number (d)	) pyramid of biomass
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	a pond ecosystem
266) Which of the following is / are not the mechanism of decomposition (a) Eluviation (b) Catabolism (c) Anabolism (d) fra 267) Which of the following is not a sedimentary cycle	agmentation
(a) Nitrogen cycle (b) Phosphorous cycle (c) Sulphur cycle (268) Which of the following are not regulating services of ecosystem service i) Genetic resources ii) Recreation and aesthetic values iii) Invasion resistance iv) Climatic regulation	
(a) i and iii (b) ii and iv (c) i and ii (d) 269) Which of the following would most likely help to slow down the greent (a) Converting (b) Ensuring that all (c) Redesigning landfill (d) tropical forests into excess paper packaging dumps to allow methane of grazing land for cattle is buried to ashes. to be collected.	d) Promoting the use f private rather than
Statement A: It drains off oxygen from water and is seen growing in stand Statement B: It is an indigenous species of our country.  (a) Statement A is correct (b) Both Statements (c) Statement A is correct and Statement B is wrong A and B are correct and Statement B is wrong	t (d) Both statements
271) Find the wrongly matched pair.  (a) Endemism - Species (b) (c) Ex-situ (d) Sacred g confined to a region and not Hotspots - Conservation Saintri hills	roves (e) Alien sp. Of s of India - Water hyacinth
ghats 272) Depletion of which gas in the atmosphere can lead to an increased incid	ence of skin cancer?
(a) Ammonia (b) Methane (c) Nitrous oxide  273) One green house gas contributes 14% of total global warming and anoth  These are respectively identified as  (b) No processor (c) CH (c)	
274) One of the chief reasons among the following for the depletion in the numaking endangered is	
(a) over hunting and poaching (b) green house (c) competition and predation predation predation predation	(d) Habitat destruction
forest removed a pond	g (d) Removal rees in of plants and trees
nutrient cycling erosion weather conditions weather condit	n of natural habitat ions
277) The unit for measuring ozone thickness	

IV) Brassica iv) Pusa Swarnim (a) iv iii ii i (b) ii i iii iv (c) ii iv i iii (d) i iii iv ii 294) A wheat variety, Atlas 66 which has been used as a donor for improving cultivated wheat, which is rich in (a) iron (b) carbohydrates (c) proteins (d) vitamins 295) Which one of the following crop varieties correct matches with its resistance to a disease? (c) RAVI TEST PAPERS & NOTES, WHATSAPP - 8056206308

Variety	Resistance to disease	Variety	Resistance to disease	Variety	Resistance to disease	IV/ariety	Resistance to disease
Pusa Komal	Bacterial blight	Pusa Sadabahar	White mist	Pusa Shubhra	Chilli mosaic virus	Brassica	Pusa swarnim

296) Which of the following is incorrectly paired?

(a) Wheat - Himgiri (b) Milch breed - Sahiwal (c) Rice - Ratna (d) Pusa Komal - Brassica

297) Match list I with list II

List I	List II
Biofertilizer	Organisms
i) Free living N2	a) Aspergillus
ii) Symbiotic N2	b) Amanita
iii) P Solubilizing	c) Anabaena azollae
iv) P Mobilizing	d) Azotobactor

(a) ic, iia, iiib, ivd

(b) id, iic, iiia, ivb.

(c) ia, iic, iiib, ivd

(d) ib, iia, iiid, ivc

298) Consider the following statements and choose the right option.

i) Cereals are members of grass family.

ii) Most of the food grains come from monocotyledon.

(a) (i) is correct and (ii) (b) Both (i) and (ii) is wrong are correct

(c) (i) is wrong and (ii) (d) Both (i) and (ii)

is correct are wrong

299) Assertion: Vegetables are important part of healthy eating.

Reason: Vegetables are succulent structures of plants with pleasant aroma and flavours.

(a) Assertion is (b) Assertion is (c) Both are correct and correct, Reason wrong, Reason is reason is the correct is wrong correct explanation for assertion. (d) Both are correct and reason is not the correct explanation for assertion.

300) Groundnut is native of

(a) Philippines

(b) India

(c) North America

(d) Brazil

301) Statement A: Coffee contains caffeine

Statement B: Drinking coffee enhances cancer

(a) A is correct, B is (b) A and B – Both are (c) A is wrong, B is (d) A and B – Both are wrong correct correct wrong

302) Tectona grandis is coming under family

(a) Lamiaceae

(b) Fabaceae

(c) Dipterocaipaceae

(d) Ebenaceae

303) Tamarindus indica is indigenous to

(a) Tropical African region

(b) South India, Sri Lanka

(c) South America, Greece

(d) India alone

304) New world species of cotton

(a) Gossipium arboretum

(b) G.herbaceum

(c) Both a and b

(d) G.barbadense

305) Assertion: Turmeric fights various kinds of cancer

Reason: Curcumin is an anti-oxidant present in turmeric

(a) Assertion is correct, Reason(b) Assertion is wrong, Reason (c) Both are (d) Both are is correct wrong

306) Find out the correctly matched pair.

(a) Rubber-Shorea robusta

(b) Dye-Lawsonia inermis

(c) Timber-Cyperus papyrus

(d) Pulp-Hevea brasiliensis

307) Observe the following statements and pick out the right option from the following:

Statement I – Perfumes are manufactured from essential oils.

Statement II – Essential oils are formed at different parts of the plants.

(a) Statement I is correct correct correct

(b) Statement II is (c) Both statements are (d) Both statements are

308) Observe the following statements and pick out the right option from the following:

Statement I: The drug sources of Siddha include plants, animal parts, ores and minerals.

Statement II: Minerals are used for preparing drugs with long shelf-life.

(a) Statement I is (b) Statement II is correct correct correct

(c) Both statements are

(d) Both statements are wrong

309) The active principle trans-tetra hydro canabial is present in

(a) Opium

(b) Curcuma

(c) Marijuana

(d) Andrographis

310) Which one of the following matches is correct?

(a) Palmyra -Native of Brazil in Kanyakumari

(b) Saccharun - Abundant (c) Steveocide -Natural sweetener (d) Palmyra sap -Fermented to give ethanol

311) The only cereal that has originated and domesticated from the New world.

(a) Oryza sativa

(b) Triticum asetumn

(c) Triticum duram

(d) Zea mays

312) Colostrum provides

(a) Naturally acquired (b) Naturally acquired (c) Artificially

(d) Artificially acquired

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325) Raja is injured and got swelling. The swelling is due to the infection of tissue is an example

(c) Plasma cells

(d) killer cells

(c) Phagocytosis (d) Inflammation

324) B cells that produce and release large amounts of antibody are called

(b) Basophils

(b) Physiological barrier

(a) Memory cells

(a) Mechanical barrier

of

18/18

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#### MCQ BOT CREATIVE

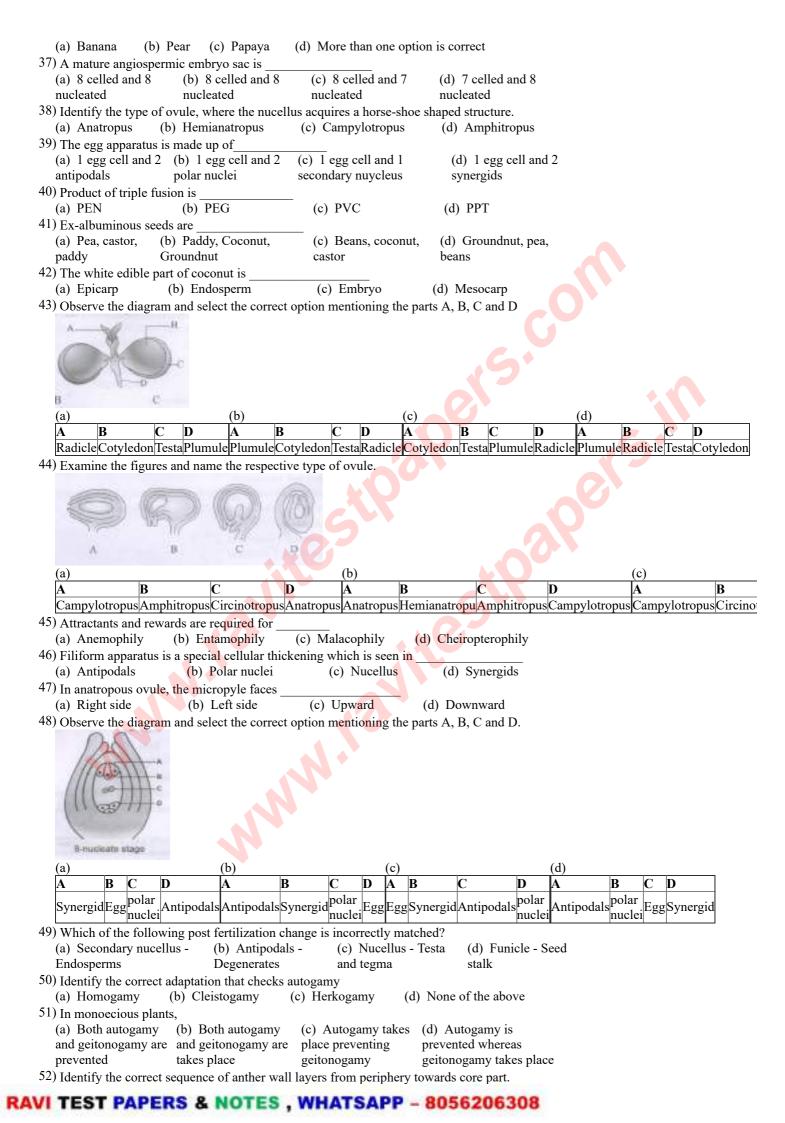
12th Standard

Biology

 $272 \times 1 = 272$ 

(a) Diplospores (b) Aplanospores (c) Diaspores (d) Conidiospores  2) Which of the following aquatic plant is popularly known as the "Terror of Bengal"?  (a) Eichomia crassipes (b) Vallisneria spiralis (c) Pistia stratiotes (d) Zostera marina  3) The genetic ability of a plant cell to produce the entire plant is said to be  (a) Multipotency (b) Totipotency (c) Pleuripotency (d) Differentiation  4) A typical anther is  (a) Bisporangiate (b) Tetrasporangiate (c) Unisporangiate (d) Multisporangiate  5) Innermost layer of anther wall is  (a) Endothecium (b) Endothecum (c) Endothelium (d) Tapetum
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6) Name the person who discovered the pollen tube?
(a) E. Strasburger (b) Hofmeister (c) Nehemiah Grew (d) G.B.Amici  7) Cleavage polyembryony is noticed in
(a) Orchids (b) Casuarina (c) Balanophora (d) Syzygium
8) Pick out the non-spermous seed (a) Wheat (b) Sunflower (c) Bean (d) Orchids
9) The type of endosperm noticed in Hydrilla seed is
(a) Ruminate (b) Nuclear (c) Cellular endosperm endosperm endosperm
10) Which is not a part of mature seed?
(a) Funiculus (b) Testa and tegma (c) hilum (d) Chalaza
11) Select the wrong statement(s) regarding cross-pollination.
(a) Pollination depends on external agent and so it is certain.
(b) New varieties are produced.
<ul><li>(c) Continuous cross-pollination leads to weaker progeny.</li><li>(d) Germination capacity is highly declined.</li></ul>
(a) a and d (b) b and c (c) a, band d (d) a, c and d
12) Which of the following characters does not exist in Ornithophilous flowers?
(a) Huge sized flowers (b) Bright coloured (c) Scented flowers (d) Nectar is secreted in large
13) Which of the following plant was introduced as a contaminant into India along with wheat?
(a) Parthenium hysterophorus (b) Zea mays (c) Rosa indica (d) Mangifera indica
14) The most common type of ovule noticed in dicots and monocots is
(a) Orthotropous (b) Anatropous (c) Campylotropus (d) Amphitropous 15) Generally, the pollen grains are liberated from another at
(a) 2-celled stage (b) 4-celled stage (c) 6-celled stage (d) 8-celled stage
16) Assertion (A): Self - pollination is certain in cleistogamous flowers.  Reason (R): Flowers never open and do not expose reproductive organs.
(a) Both A and R (b) A is correct R (c) R (d) Both A and R are correct. R is not
are incorrect. is incorrect. explains A correct explanation for A.
17) Assertion (A): Entomophily is the most common type of pollination.
Reason (R): Birds and animals bring out effective pollination.
(a) Both A and R (b) A is correct R (c) R (d) Both A and R are correct. R is not a are incorrect. is incorrect. explains A correct explanation for A.
18) Statement 1: Primary sporogenous cell functions as megaspore mother cell.
Statement 2: Megaspore mother cell undergoes mitotic division producing megaspores.
(a) Statement 1 is correct (b) Statement 1 is (c) Both the (d) Both the
and statement 2 is incorrect and statement 2 statements 1 and 2 statements 1 and 2 are
incorrect. is correct. are correct. incorrect.
19) Statement 1: Apomixis does not involve meiosis and syngamy.
Statement 2: The term Apomixis was introduced by Winkler.  (a) Statement 1 is correct (b) Statement 1 is (c) Both the (d) Both the
and statement 2 is incorrect and statement 2 statements 1 and 2 statements 1 and 2 are
incorrect. is correct are correct. incorrect.
20) Statement 1: The pollen grains are deposited on the receptive surface of style.
Statement 2: After landing, the first visible change in pollen is hydration.  (a) Statement 1 is correct (b) Statement 1 is (c) Both the (d) Both the

and statement 2 is incorrect and statement 2 statements 1 and 2 statements 1 and 2 are incorrect incorrect. is correct. are correct. 21) Identify the incorrect statement regarding vegetative reproduction. (a) Only one parent is (b) New individuals are (c) Easy mode of (d) Variation required for propagation. genetically dissimilar. reproduction does not exist. 22) Identify the mismatched pair: (a) Epidermal layer (b) Eridothecium layer - Helps(c) Middle layer (d) Tapetum - Protective infunction in dehiscence of anther - Nutritive in - Persistent laver function 23) Identify the mismatched pair: (i) Sucker - Chrysanthemum (ii) Bulbils - Agave (iii) Stolon - Fragaria (iv) Runner - Lilium (a) i only (b) ii only (c) iii only (d) iv only 24) Assertion (A): Epidermis is protective in function. Reason (R): Epidermis is outermost unilayer of another wall. (a) A is correct R is (b) R (c) Both A and R are (d) Both A and R are correct. R does incorrect. explains A. incorrect. not explain A. 25) Assertion (A): Microspores are the first cell of male gametophyte. Reason (R): Microspores undergo development and form pollen grains. (a) A is correct R is (b) R (c) Both A and R are (d) Both A and R are correct. R does not explain A. incorrect. explains A. incorrect. 26) Assertion (A): Carica papaya is a dioecious plant. Reason (R): Both male and female flowers are borne on same plant. (a) A is correct R is (b) R (c) Both A and R are (d) Both A and R are correct. R does incorrect. explains A. incorrect. not explain A. 27) Assertion (A): Anemophilous pollination occurs by animals. Reason (R): Pollen grains are sticky for easy attachment on animals. (a) A is correct R is (b) R (c) Both A and R are (d) Both A and Rare correct. R does explains A. incorrect. incorrect not explain A. 28) Assertion (A): Fusion of male and female gametes results in zygote. Reason (R): Product of triple fusion is PEN. (a) A is correct R is (b) R (c) Both A and R are (d) Both A and R are correct. R does incorrect. explains A. incorrect. not explain A. 29) Assertion (A): Zea mays is a monocotyledonous plant. Reason (R): Shield shaped cotyledon is called scutellum. (c) Both A and R are (d) Both A and R are correct. R does (a) A is correct R is (b) R incorrect. explains A. incorrect. not explain A. 30) Assertion (A): In Bryophyllum, vegetative propagation occurs through leaf. Reason (R): Epiphyllous buds are noticed in Bryophyllum. (c) Both A and R are (d) Both A and R are correct. R does (a) A is correct R is (b) R incorrect. explains A. incorrect. not explain A. 31) Assertion (A): Androecium and Gynoecium are essential whorls of flower Reason (R): Androecium and Gynoecium assist the reproduction. (a) A is correct R is (b) R (c) Both A and R are (d) Both A and R are correct. R does incorrect explains A incorrect not explain A 32) Identify the correct statement. (a) Grafting is a (b) The plant (c) In tongue grafting, the (d) Grafting is modem method of which is used for scion bud is placed inside the usually carried out in artificial propagation. graft is Scion. incision beneath bark. monocot plants. 33) Statement 1: Flower is a highly condensed shoot for reproductive purpose. Statement 2: A complete flower possesses four whorls. (a) Both the (b) Statement 1 is correct (c) Both the (d) Statement 1 is incorrect and Statement 2 is incorrect. statements are and statement 2 is' correct. statements are incorrect. correct 34) Identify the incorrect statement. (a) One seeded fruit of (b) Primitive root is (c) Sctellum is a part (d) Embryonic axis above called coleorhiza. of mono cot seed. paddy is caryopsis. the cotyledon is epicotyl. 35) Identify the incorrect statement. (a) The stalk of (b) Nucellus is composed (c) Basal region of (d) Micropyle is always the ovule is ofsclerenchymatous tissue the ovule is chalaza oriented opposite to chalaza funiculus. end. 36) Identify the parthenocarpic fruit



ightarrow endothelium $ ightarrow$ endothelium $ ightarrow$ endothelium
$\begin{array}{cccc} \longrightarrow \text{stomium} \longrightarrow & \longrightarrow \text{endothelium} & \longrightarrow \text{middle layers} & \longrightarrow \text{endothecium} \\ \text{lapetum} & \longrightarrow & \text{tapetum} & \longrightarrow & \text{tapetum} \end{array}$
53) The proteins responsible for rejection reaction present in exine cavities of pollen is a derivative
of
(a) Stomium (b) Endothecium (c) Tapetum (d) Ubisch bodies
54) Pick out the mismatched pair:
(a) Entomophily (b) Malacophily - (c) Cheiropterophily - (d) Omithophily -
- Insects Mammals Bats Birds  55) Which is the most common time of style scen in managets.
55) Which is the most common type of style seen in monocots  (a) Open type  (b) Closed type  (c) Solid type  (d) Half closed type
56) The term 'Genetics' was introduced by
(a) Gregor Mendel (b) Bateson (c) Hugo de Vries (d) Carl Correns
57) Which is not a correct statement?
(A) Variations are the raw materials for evolution
(B) Variations provide genetic material for natural selection
(C) It helps the individual to adapt to the changing environment
(D) Variations allow breeders to improve the crop field  (a) A and D  (b) B only  (c) C and D  (d) none of he above
(a) A and D (b) B only (c) C and D (d) none of he above 58) An allede is
(a) another word (b) Alternate forms (c) morphological (d) genetic make up of
for a gene of a gene expression of a gene an organism
59) Gregor Mendel
(i) was born in Czechoslovakia
(ii) did his experiments in Pisum fulvum
(iii) was the first systemic researcher in genetics
(iv) Published his results in the paper "Experiments on Plant Hybrids"
(a) All are (b) (ii), (iii), (iv) are (c) (i), (iii), (iv) are (d) (i), (iii), (iv) are correct correct
60) How many characters studied by Mendel in pisum sativum
(a) Three (b) Five (c) Seven (d) Nine
61) Mendel's work were rediscovered by
(a) Hugo de Vries (b) Tschermak (c) Carl Correns (d) all the above
62) Crossing of F I to anyone of the parent refers to
(a) selfing (b) back cross (c) test cross (d) all of the above
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correct are correct 71) Statement 1: Test cross is done between F1 individual with homozygous recessive
Statement 2: If F 1 individual is homozygous, the rate of a monohybrid cross will be 1:1
(a) Statement 1 is correct (b) Statement 1 is (c) Both (d) Both Statements
& Statement 2 is incorrect incorrect & Statement 2 is Statements 1 & 2 1 & 2 are incorrect
72) Identify the incorrect statement
(a) In incomplete (b) Incomplete dominance is (c) It is a type of (d) Incomplete
dominance, the traits are noticed in Mirabilis jalapa by Intragenic gene dominance F2
blended not the genes Carl Correns interaction ratio is 1 : 3 : 1
73) Incase of co-dominance, monohybrid F 1 is 1: 2: 1
(a) Genotype ratio(b) Phenotype ratio(c) Both genotype & Phenotype ratio(d) Ratio is wrong 74) Identify the wrong statement(s)
(i) Monohybrid cross involves the inheritance of two alleles of a gene
(ii) The dwarf traits reappeared in F2
(iii) Law of dominance was proved by monohybrid cross
(iv) F 1 monohybrid was an heterozygous (a) i and ii (b) iii and iv (c) i only (d) none of the above
75) Result of incomplete dominance is
(a) Intermediate genotype (b) Intermediate phenotype (c) Recessive phenotype (d) Epistasis
76) Heterozygous Tall mono hybrid is cross with homozygous dwarf. What will be characteristic
of offspring?
(a) 25 % recessive 75% (b) 75 % recessive 25% (c) 50 % recessive 50% (d) All are dominant dominant dominant
77) ABO blood group is a classical example for
(a) Polygenic inheritance (b) Incomplete dominance (c) Epistasis (d) Dominance
78) RR (Red) flower of Mirabilis is crossed with White (WW) flowers. Resultant offspring are
pink RW. This is an example of
79) How many genetically different gametes are produced by a plant have genotype TtYyRr?
(a) 2 (b) 4 (c) 6 (d) 8
80) When a single gene influences multiple traits then the phenomenon is called
(a) Pleiotropy (b) Polygenic inheritance (c) Epistasis (d) Atavism
81) According to Mendel which character shown dominance
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(a) 1226 (b) 1622 (c) 1265		2127
02) Identify the symptomic same from the sixon sames seguen	` '	2126 
92) Identify the syntenic gene from the given genes sequen A-B	ce of a chromosome	: U-П-I-J-К-L-IVI-
	G andB (c	d) AandB
93) Incomplete linkage was reported by Hutchinson in	( )	114142
(a) Drosophila (b) Maize (c) Neurospora	(d) Lathyrus	odoratus
94) Mechanism of crossing over involves the following sta		
(a) Tetrad stage ~ (b) Syndesis ~ Tetrad ~ (c) Te		
Synapsis ~ Bivalent Crossing over ~ Tetrad stage ~ cross over Terminalisation Cross		valent ~ Tetrad ~ rminalisation
95) During cross over, chiasma occurs between	over rer	Illinansation
•	on-sister (d	) Sister chromatids
	,	Fhomologous
chromosomes homologous homol		nromosomes
	osomes	
96) At which stage of meiosis, does the chromosomes unde (a) Leptotene stage of (b) Zygotene stage of (c) Dipl		
prophase I prophase I prophase I	• , ,	phase I
97) Which of the following statement(s) is/are wrong with:		
(i) Mitotic crossing over occurs rarely in somatic cells.	1	157
(ii) Syndesis refers to pairing of non-homologous chrom	osome.	
(iii) Procentric synapsis starts from telomeres.		
(iv) A Bivalent has four chromatids.		
(a) i and iv (b) ii and i (c) ii and iii	(d) All the a	above
98) Recombination frequency (RF) is equal to (a) (b) (c)		(d)
$rac{No.of of f springs}{No.of recombinants}  imes 100 rac{No.of}{No.of parental strains}  imes 100 rac{No.o}{No.of}$		
99) In a population of 250 progenies produced, only 120 re	semble the parental	forms. Calculate
the recombinant frequency. (a) 66% (b) 52% (c) 59%	(d)	49%
100) Mutation theory was proposed by	(4)	
(a) T. H. Morgan (b) Hugo de Vries (c) Alfred S	curtevant (d) Su	tton and Boveri
101) Identify the mutant variety of castor.		
(a) Sharbathi Sonora variety (b) Aruna variety (c) F	Leimei variety (d)	Erectiferm variety
102) Which is not a non-ionizing radiation?	1	1) 117/
(a) X-rays (b) Gamma rays (c) Alp	ha rays (	d) UVrays
(a) X-rays (b) Gamma rays (c) Alp 103) Transition type of gene mutation is caused when		•
(a) X-rays (b) Gamma rays (c) Alp		d) UVrays TC is replaced by
(a) X-rays (b) Gamma rays (c) Alp 103) Transition type of gene mutation is caused when (a) AC is replaced by (b) AG is replaced by (c) AC	is replaced by (d)	•
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(a) X-rays (b) Gamma rays (c) Alp 103) Transition type of gene mutation is caused when (a) AC is replaced by (b) AG is replaced by (c) AC GT TC TG  104) Pick out the co-mutagen from the following: (a) Eosin (b) Mustard gas (c) Ascorbic as 105) Sharbati Sonara is a mutant wheat variety which is de (a) Thermal neutrons (b) Gamma radiation 106) Which one of the following ploidy is irrelevant to othe (a) Monosomy (b) Trisomy (c) Tetras 107) Statement 1: Euploidy involves entire sets of chromosomy Statement 2: Aneuploidy involves individual chromosom (a) Statement 1 is correct (b) Statement 1 is incorrect and Statement 2 is incorrect and Statement 2 is correct 108) Statement 1: In transversion mutation, a purine replaced by (a) Statement 1 is correct (b) Statement 1 is incorrect and Statement 2 is incorrect and Statement 2 is correct 109) Statement 1: Pairing of homologous chromosome is constant 1: Pairing of homologous chromosome is constant 2: Proterminal synapsis occurs from telomere (a) Statement 1 is correct (b) Statement 1 is incorrect (a) Statement 1 is correct (b) Statement 1 is incorrect (b) Statement 1 is incorrect (c) Statement 1 is incorrect (d) Statement 1 is incorrect (e) Statement 1 is incorrect (d) Statement 1 is incorrect (e) Statement 1 is incorrect (e) Statement 1 is incorrect (e) Statement 1 is incorrect (f) State	is replaced by (d) AG  cid (d) N  veloped by irradiatin  (c) X-rays (d)  ers?  somy (d) P  somes  nes within a diploid  t (c) Both the  statements are  correct  changed to pyrimid  another purine.  (c) Both the  statements are  correct  alled as syndesis.  s.  t (c) Both the  statements are  correct  alled as syndesis.  s.  t (c) Both the  statements are  correct	TC is replaced by  itrous acid ng the seeds with  UV radiations  Pentasomy  net. (d) Both the statements are incorrect  line. (d) Both the statements are incorrect  (d) Both the statements are incorrect

and Statement 2 is incorrect and Statement 2 is correct statements are statements are correct incorrect
111) Statement 1: Self-sterility in Nicotiana is controlled by multiple alleles.
Statement 2: Multiple alleles are always responsible for the same character.
(a) Statement 1 is correct (b) Statement 1 is incorrect (c) Both the and Statement 2 is incorrect and Statement 2 is correct statements are correct incorrect
112) One of the following is not the kind of euploidy
(a) Diploidy (b) Polyploidy (c) Hyperploidy (d) Autoploidy 113) The chromosomal condition 2n -2 represents
(a) Monosomy (b) Nullisomy (c) Trisomy (d) Tetrasomy 114) Identify the autotriploid plant
(a) Potato (b) Coffee (c) Ground nut (d) Apple
115) Assertion (A): Polyploidy is common in plants.
Reason (R): Polyploids possess more than 2 basic sets of chromosomes.
(a) A is true R is (b) Both A and R are (c) A is true, R is not correct false false explanation for A explains A
116) Assertion (A): Complete linkage is noticed in male species of Drosophila.
Reason (R): Completely linked genes show some crossing over.
(a) A is true R is (b) Both A and R are (c) A is true, R is not correct (d) R
false false explanation for A explains A
117) Assertion (A): Self-sterility is observed in Nicotiana species.
Reason (R): Because the genes are located on chromosome.
(a) A is true R is (b) Both A and R are (c) A is true, R is not correct (d) R
false false explanation for A explains A
118) Observe the gene sequence and identify the types of aberration ABC BCD E F?  (a) Tandem (b) Simple (c) Reverse tandem (d) Displaced tandem
(a) Tandem (b) Simple (c) Reverse tandem (d) Displaced tandem duplication duplication
119) Which of the following person coined the term biotechnology?
(a) Ernst Hoppe (b) Stanley Cohen (c) Ian Wilmet (d) Karl Ereky 120) Zymology deals with
(a) Study of yeast (b) Study of (c) Study of Bioreactors (d) Study of zymase
fungus and its practical fermentation and and their construction producing microbes and
applications. its uses. methodology. its benefits.
121) Identify the incorrect statement:
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial process of down stream process.
121) Identify the incorrect statement:  (a) French chemist Louis Pasteur providing optimal demonstrated the fermentation.  (b) Fermentor is a vessel is an upstream filtration comes under down stream process. fermentation.
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial process of down stream process. fermentation.  122) Pick out the mismatched pair(s):
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial fermentation.  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and is an upstream filtration comes under down stream process of fermentation.  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and is an upstream filtration comes under down stream process.  (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and is an upstream filtration comes under down stream process.  (c) Fermentor is a vessel (c) Solvent extraction(d) Distillation and is an upstream filtration comes under down stream process.  (d) Fermentor is a vessel (c) Solvent extraction(d) Distillation and is an upstream filtration comes under down stream process.  (e) Fermentor is a vessel (c) Solvent extraction(d) Distillation and is an upstream filtration comes under down stream process.  (e) Fermentor is a vessel (c) Solvent extraction(d) Distillation and is an upstream filtration comes under down stream process.  (e) Fermentor is a vessel (c) Solvent extraction(d) Distillation and is an upstream filtration comes under down stream process.
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial fermentation.  (i) Arnphotericin-B - Streptomyces notatum (ii) Penicillin - Penicillum nodosus
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial fermentation.  (i) Penicillin - Penicillum nodosus (iii) Streptomycin - Streptomyces grises
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial fermentation.  (i) Arnphotericin-B - Streptomyces notatum (ii) Penicillin - Penicillum nodosus
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial fermentation.  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and is an upstream filtration comes under down stream process of down stream process.  (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and is an upstream filtration comes under down stream process.  (c) Fermentor is a vessel (c) Solvent extraction(d) Distillation and is an upstream filtration comes under down stream process.  (down stream process.  (i) Arnphotericin-B - Streptomyces notatum  (ii) Penicillin - Penicillum nodosus  (iii) Streptomycin - Streptomyces grises  (iv) Tetracycline - Streptomyces aureofacins
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial process of down stream process. fermentation.  122) Pick out the mismatched pair(s):  (i) Arnphotericin-B - Streptomyces notatum  (ii) Penicillin - Penicillum nodosus  (iii) Streptomycin - Streptomyces grises  (iv) Tetracycline - Streptomyces aureofacins  (a) i and ii (b) ii and iii (c) iii and iv (d) i only
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial process of down stream process. fermentation.  122) Pick out the mismatched pair(s):  (i) Arnphotericin-B - Streptomyces notatum  (ii) Penicillin - Penicillum nodosus  (iii) Streptomycin - Streptomyces grises  (iv) Tetracycline - Streptomyces aureofacins  (a) i and ii (b) ii and iii (c) iii and iv (d) i only  123) Identify the non-fungal species used in SCP production.  (i) Candida  (ii) Chlorella
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial process of down stream process. fermentation.  122) Pick out the mismatched pair(s):  (i) Arnphotericin-B - Streptomyces notatum  (ii) Penicillin - Penicillum nodosus  (iii) Streptomycin - Streptomyces grises  (iv) Tetracycline - Streptomyces aureofacins  (a) i and ii (b) ii and iii (c) iii and iv (d) i only  123) Identify the non-fungal species used in SCP production.  (i) Candida  (ii) Chlorella  (iii) Chlamydomonas
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121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial process of down stream process. fermentation.  122) Pick out the mismatched pair(s):  (i) Arnphotericin-B - Streptomyces notatum  (ii) Penicillin - Penicillum nodosus  (iii) Streptomycin - Streptomyces grises  (iv) Tetracycline - Streptomyces aureofacins  (a) i and ii (b) ii and iii (c) iii and iv (d) i only  123) Identify the non-fungal species used in SCP production.  (i) Candida  (ii) Chlorella  (iii) Chlamydomonas  (iv) Cellulomonas  (a) i and ii (b) ii and iii (c) ii, iii and iv (d) All the above  124) Select the correct restriction enzyme which breaks the phosphodiester bond within a DNA
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial process of down stream process.  fermentation.  122) Pick out the mismatched pair(s): (i) Arnphotericin-B - Streptomyces notatum (ii) Penicillin - Penicillum nodosus (iii) Streptomycin - Streptomyces grises (iv) Tetracycline - Streptomyces aureofacins (a) i and ii (b) ii and iii (c) iii and iv (d) i only  123) Identify the non-fungal species used in SCP production. (i) Candida (ii) Chlorella (iii) Chlamydomonas (iv) Cellulomonas (a) i and ii (b) ii and iii (c) ii, iii and iv (d) All the above  124) Select the correct restriction enzyme which breaks the phosphodiester bond within a DNA molecule.
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial process of down stream process. fermentation.  122) Pick out the mismatched pair(s):  (i) Arnphotericin-B - Streptomyces notatum (ii) Penicillin - Penicillum nodosus (iii) Streptomycin - Streptomyces grises (iv) Tetracycline - Streptomyces aureofacins (a) i and ii (b) ii and iii (c) iii and iv (d) i only  123) Identify the non-fungal species used in SCP production. (i) Candida (ii) Chlorella (iii) Chlamydomonas (iv) Cellulomonas (a) i and ii (b) ii and iii (c) ii, iii and iv (d) All the above  124) Select the correct restriction enzyme which breaks the phosphodiester bond within a DNA molecule. (i) Ba131
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial process of down stream process. fermentation.  122) Pick out the mismatched pair(s):  (i) Arnphotericin-B - Streptomyces notatum (ii) Penicillin - Penicillum nodosus (iii) Streptomycin - Streptomyces grises (iv) Tetracycline - Streptomyces aureofacins (a) i and ii (b) ii and iii (c) iii and iv (d) i only  123) Identify the non-fungal species used in SCP production. (i) Candida (ii) Chlorella (iii) Chlamydomonas (iv) Cellulomonas (a) i and ii (b) ii and iii (c) ii, iii and iv (d) All the above  124) Select the correct restriction enzyme which breaks the phosphodiester bond within a DNA molecule. (i) Ba131 (ii) Hind II
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial process of down stream process. fermentation.  122) Pick out the mismatched pair(s):  (i) Arnphotericin-B - Streptomyces notatum (ii) Penicillin - Penicillum nodosus (iii) Streptomycin - Streptomyces grises (iv) Tetracycline - Streptomyces aureofacins (a) i and ii (b) ii and iii (c) iii and iv (d) i only  123) Identify the non-fungal species used in SCP production. (i) Candida (ii) Chlorella (iii) Chlamydomonas (iv) Cellulomonas (a) i and ii (b) ii and iii (c) ii, iii and iv (d) All the above  124) Select the correct restriction enzyme which breaks the phosphodiester bond within a DNA molecule. (i) Ba131 (ii) Hind II (iii) BamHI
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial process of down stream process. fermentation.  122) Pick out the mismatched pair(s):  (i) Arnphotericin-B - Streptomyces notatum (ii) Penicillin - Penicillum nodosus (iii) Streptomycin - Streptomyces grises (iv) Tetracycline - Streptomyces aureofacins (a) i and ii (b) ii and iii (c) iii and iv (d) i only  123) Identify the non-fungal species used in SCP production. (i) Candida (ii) Chlorella (iii) Chlamydomonas (iv) Cellulomonas (a) i and ii (b) ii and iii (c) ii, iii and iv (d) All the above  124) Select the correct restriction enzyme which breaks the phosphodiester bond within a DNA molecule. (i) Ba131 (ii) Hind II
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial fermentation.  122) Pick out the mismatched pair(s):  (i) Arnphotericin-B - Streptomyces notatum (ii) Penicillin - Penicillum nodosus (iii) Streptomycin - Streptomyces grises (iv) Tetracycline - Streptomyces aureofacins (a) i and ii (b) ii and iii (c) iii and iv (d) i only  123) Identify the non-fungal species used in SCP production. (i) Candida (ii) Chlorella (iii) Chlamydomonas (iv) Cellulomonas (a) i and ii (b) ii and iii (c) ii, iii and iv (d) All the above  124) Select the correct restriction enzyme which breaks the phosphodiester bond within a DNA molecule. (i) Ba131 (ii) Hind II (iii) BamHI (iv) Pvul
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and Louis Pasteur providing optimal is an upstream filtration comes under demonstrated the condition for microbial action.  122) Pick out the mismatched pair(s):  (i) Arnphotericin-B - Streptomyces notatum  (ii) Penicillin - Penicillum nodosus  (iii) Streptomycin - Streptomyces grises  (iv) Tetracycline - Streptomyces aureofacins (a) i and ii (b) ii and iii (c) iii and iv (d) i only  123) Identify the non-fungal species used in SCP production.  (i) Candida  (ii) Chlorella  (iii) Chlamydomonas  (iv) Cellulomonas  (a) i and ii (b) ii and iii (c) ii, iii and iv (d) All the above  124) Select the correct restriction enzyme which breaks the phosphodiester bond within a DNA molecule.  (i) Bal 31  (ii) Hind II  (iii) BamHI  (iv) Pvul  (a) i and iii (b) i, ii and iii (c) ii, iii and iv (d) i only
121) Identify the incorrect statement:  (a) French chemist (b) Fermentor is a vessel (c) Solvent extraction(d) Distillation and is an upstream filtration comes under demonstrated the condition for microbial fermentation.  122) Pick out the mismatched pair(s):  (i) Arnphotericin-B - Streptomyces notatum  (ii) Penicillin - Penicillum nodosus  (iii) Streptomycin - Streptomyces grises  (iv) Tetracycline - Streptomyces aureofacins  (a) i and ii (b) ii and iii (c) iii and iv (d) i only  123) Identify the non-fungal species used in SCP production.  (i) Candida  (ii) Chlorella  (iii) Chlamydomonas  (iv) Cellulomonas  (a) i and ii (b) ii and iii (c) ii, iii and iv (d) All the above  124) Select the correct restriction enzyme which breaks the phosphodiester bond within a DNA molecule.  (i) Ba131  (ii) Hind II  (iii) BamHI  (iv) Pvul  (a) i and iii (b) i, ii and iii (c) ii, iii and iv (d) i only  125) Cohesive ends are

(a) A - Plasmid B (b) A - Vector - Plass			eterial le B - Vecto		d) A - Nucleoid - B hage DNA	- X
128) A vector should	illid Cili	OHIOSOH	CD - VCCIO	1 P	nage DIVA	
(i) contain suitable mark						
	<b>51</b>					
(ii) contain ori site						
(iii) have poly linkess						
(iv) be small in size	) ;; ;;; am d ;;;	(a) ;	ii amd iv	(4	) all the above	
	) ii, iii and iv		ii and iv	(a	) all the above	
129) Number of base pairs of					(4) 2264	
` '	4322	(c) 43	001	(	(d) 3264	
130) pUC 19 is an example			( ) C	1 (1)	D1	
` '	b) Expression vector		(c) Cosmic		Phagemid vector	
131) Statement 1: YAC plas		-	romosome.			
Statement 2: Circular YA			( ) D d d	(		
(a) Statement 1 is correct			(c) Both th	•	d) Statement 1 is	
and Statement 2 is also			statements		ncorrect and Stateme	ent 2
correct.	is incorrect		incorrect.	18	s correct.	
132) Statement 1: Liposome						
Statement 2: Liposomes	~ ~ ~	-			1) Ct. t 1	
(a) Statement 1 is correct	· /		(c) Both th		d) Statement 1 is	4 2
and Statement 2 is also		ment 2	statements		ncorrect and Statem	ent 2
correct.	is incorrect.	1	incorrect.	1:	s correct	
133) Statement 1: DNA is a	•					
Statement 2: T-DNA is a			() D. 4. 4	. (	1) (4.4	
(a) Statement 1 is correct			(c) Both th	•	d) Statement 1 is	n+ 2
and Statement 2 is also		ment 2			ncorrect and Stateme	ent Z
correct.	is incorrect.	02.0	incorrect.		s correct.	
134) Statement 1: Bioventin						
Statement 2: Bioaugmen	tation uses microbe	s to reco	ver metal p	ollutant	s from contaminated	1
sites.			/\ <b>=</b>			
(a) Statement 1 is correct			(c) Both th		d) Statement 1 is	
and Statement 2 is also	correct and States		_		ncorrect and Stateme	ent 2
correct.	is incorrect		incorrect.		correct.	
135) Assertion (A): Golden	-	ome chil	dhood blind	lness.		
Reason (R): It is rich in J						
(a) Both A and R are (		(c) R			R are right, R does no	ot
	vrong.	explain		ain A.		
136) Assert <mark>ion (A</mark> ): Express			expressing	foreign	proteins.	
Reason (R): pBR 322 is						
	b) A is right R is	(c) R			R are right, R does no	ot
C	vrong.	explain	-	ain A.		
137) Assertion (A): Pseudo	monas putida is uti	lized in 1	the producti	on of B	iological hydrogen.	
Reason (R): During phot	osynthesis, it releas	ses oxyg	en.			
(a) Both A and R are (	b) A is right R is	(c) R	(d)	A and F	R are right, R does no	ot
wrong.	vrong.	explain	s A. expl	ain A.		
138) Assertion (A): DMH -	11 is a transgenic m	ustard.				
Reason (R): It is develop	ed by using bamase	e/ barstai	technology	у.		
(a) Both A and R are (	b) A is right R is	(c) R	(d)	A and F	R are right, R does no	ot
wrong. v	vrong.	explain	s A. expl	ain A.		
139) Green fluorescent prote	ein (GFP) was isola	ited from	l			
	Arabidopsis		robacteriun	n	(d) Escherichia	a
	liana	tumifa			coli	
140) Tetracycline is obtaine	d from					
	S.aureofacins	(c) S	.grises	(d) P.	chryosogenum	
141) Today more than			_		, ,	
	) 900	(c) 10			(d) 870	
142) Which of the following	<i>'</i>	` '		iction e	* *	

(b) It is an (c) It is

(d) It produces the same kind of

endonucleaseisolated from sticky ends in different DNA palindromic nucleotide viruses molecules sequence 143) Identify the group of scientists who developed the intergenic hybrid - the pomato. (a) Yamada et al. (b) Horsh et al. (c) Takebe et al. (d) Melchers et al. 144) The production of secondary metabolites require the use of (a) Protoplast culture(b) Organ culture(c) Cell suspension culture(d) Virus free germ culture 145) Which of the following condition favours callus induction? (a) Temperature of (b) Temperature of (c) Temperature of (d) Temperature of  $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$  with 12  $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$  with 18  $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$  with 14  $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$  with 16 hours of photoperiod hours of photoperiod hours of photoperiod hours of photoperiod 146) Protoplast are the cells devoid of (a) Cell wall (b) Cell membrane (c) Plasma membrane (d) both A and B 147) A widely used fusogen in protoplast culture is (a) Polymethyl glycol(b) Polyethylene glycol(c) Polyethylene chloride(d) Polyvinyl chloride 148) Synseeds are developed by encapsulating embryoids with (a) Sodium chloride (b) Potassium iodide (c) Sodium alginate (d) Potassium dichromate 149) The optimal pH of culture medium is generally (b) Basic (d) Slightly basic (a) Acidic (c) Neutral 150) Identify the correct sequence regarding steps involved in PTC (a) Sterilization (c) Induction (b) Inoculation (d) Sterilization → Incubation → Inoculation → Induction → Incubation → Inoculation → Sterilization → Inoculation → → Incubation Embryogenesis → Hardening → Hardening → Embryogenesis Hardening → Embryogenesis → Sterilization → Hardening 151) Dimethyl sulphoxide is a (a) Solidifying agent (b) Cryoprotectant (c) Fusogenic agent (d) Stimulant 152) Assertion (A): Incubation is followed by Inoculation. Reason (R): Explant is inoculated to media. (a) Both A and R are correct but R is not a correct explanation to A (b) R explains A 153) Assertion (A): Sterilization helps to overcome microbes. Reason (R): Explants are autoclaved. (a) Both A and R are correct but R is not a (b) R (c) A is correct R (d) Both A and R correct explanation to A explains A is incorrect incorrect 154) Assertion (A): Protoplasts are cells devoid of cell wall. Reason (R): Secondary metabolites are synthesized by protoplasmic fusion. (a) Both A and R are correct but R is not a (b) R (c) A is correct R (d) Both A and R correct explanation to A explains A is incorrect are incorrect 155) Assertion (A): Development of root from callus is called caulogenesis. Reason (R): Caulogenesis is the final step of protoplasmic fusion. (a) Both A and R are correct but R is not a (b) R (c) A is correct R (d) Both A and R correct explanation to A are incorrect explains A is incorrect 156) Assertion (A): Liquid nitrogen is used in cryopreservation techniques. Reason (R): Gene bank DNA bank are the parts of germplasm conservation. (c) A is correct R (d) Both A and R (a) Both A and R are correct but R is not a (b) correct explanation to A R explains is incorrect are incorrect 157) Identify the cryoprotectant (a) Dimethyl formamide (c) Glycerol (b) Fructose (d) Sodium alginate 158) Identify the wrong statement: (a) Artificial seeds are (b) Somatic embryos (c) Period of (d) Encapsulation of stored for long time are used for artificial dormancy of artificial embryoids is done under cryopreservation seed production seeds is greatly using cryoprotectant reduced 159) Identify the plant tissue used for virus free germplasm (a) Apical meristem (b) Intercalary meristem (c) Lateral meristem (d) Plate meristem 160) Identify the incorrect statement: (a) Explants are surface sterilized (b) Nutrient media are autoclaved (c) Culture rooms are UV radiated for 15 minutes (d) Glasswares and accessories are autoclaved (b) b and c (d) none of the above (c) d only (a) a only 161) The enzymatic mixture for chemical isolation of protoplast is (a) 0.5% macrozyme, (b) 1.5% macrozyme, (c) 2% macrozyme, (d) 0.1% macrozyme, 2% onozuka cellulase, 0.5% onozuka 0.5% onozuka 2% onozuka cellulase,

13% mannitol cellulase, 12% sorbitol cellulase, 13% sorbitol 15% mannitol
162) The term used to define the ability of a cell to generate entire individual is  (a) Pleuripotent  (b) Totipotent  (c) Multipotent  (d) Unipotent
163) The phenomenon of reversion of mature cells to meristematic state leading to callus formation is
(a) Redifferentiation (b) Dedifferentiation (c) either (a) or (b) (d) none of these
164) Somatic hybridization is achieved through
(a) Protoplast fusion (b) r-DNA technology (c) Transformation (d) Grafting
165) Identify the mismatched pair:
(a) Digoxin - (b) Codeine - (c) Vincristine - (d) Quinine - Cinchona Digitalis purpuria Capsicum annum Catharanthus roseus officinalis
166) Autoecology deals with the study of  (a) Community (b) Population (c) Individual species (d) Niche of species
167) Environment of any community is called (a) Paratope (b) Ecotype (c) Opitope (d) Biotope
168) The study of soil is called as
(a) Lithotripsy (b) Lithosphere (c) Pedology (d) Pedigree analysis
169) Identify the indicators of fire.  (a) Pucinia (b) Pyricularia (c) Pyronema (d) Peziza
170) Statement 1: Latitudes represent distance from the equator.
Statement 2: Height above the seal level from longitude.
(a) Statement 1 is correct. (b) Statement 1 is (c) Both the Statement 2 is incorrect incorrect. Statement 2 is statements are statements are
correct correct.
171) Statement 1: Holoparsites depend totally on other organisms for nutrition.
Statement 2: Durnta is holoparasite.
(a) Statement 1 is correct. (b) Statement 1 is (c) Both the (d) Both the
Statement 2 is incorrect. Statement 2 is statements are statements are
correct correct. incorrect
172) Statement 1: Ephemerals are drought evaders.
Statement 2: They are not true xerophytes.
(a) Statement 1 is correct. (b) Statement 1 is (c) Both the Statement 2 is incorrect. Statement 2 is statements are statements are
correct. correct. incorrect
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correct. correct. incorrect  173) Assertion (A): Plains and valleys are rich in vegetation  Reason (R): Slow drain of surface water and better water retention is noticed.  (a) A is true R is (b) R explains (c) A and R are (d) A and R are true. But R doesnot false A false explains A  174) Utricularia is a  (a) Rooted floating (b) Submerged floating (c) Rooted submerged (d) Amphibious hydrophyte

from one system to other in results in reduction of free neither be created the universe is nor destroyed. many forms. energy. constant. 184) If 1200 Joules of solar energy is trapped by producers, how much of Joules of energy does the organism in the third trophic level will receive? (a) 120 Joules (b) 12 Joules (d) 0.12 Joules (c) 1.2 Joules 185) Which of the following food chain is in improper sequence? (a) Plants ~ snake ~ (b) Plants ~ grasshopper (c) Plants ~ lizard ~ (d) Plants ~ rabbit ~ rabbit ~ lizard ~ eagle ~ lizard ~ snake ~ hawk rabbit ~ snake ~ eagle lizard ~ hawk ~ eagle 186) Which one of the following is not a functional unit of an ecosystem? (a) Productivity (b) Conductivity (c) Energy flow (d) Decomposition 187) The upright pyramid is not a feature of (a) Pond ecosystem (b) Grassland ecosystem (c) Forest ecosystem (d) Terminal ecosystem 188) The type of ecosystem with maximum net primary productivity is (b) Deciduous forest (c) Tropical rain forest (d) Grassland (a) Desert ecosystem ecosystem ecosystem ecosystem 189) Pyramid of numbers with broad base indicates (a) High population of (b) Low population of (c) High population of (d) Low population of young individuals old individuals old individuals young individuals 190) Spindle shaped pyramid is a character of (a) Pond ecosystem (b) Grassland ecosystem (c) Parasite ecosystem (d) Forest ecosystem 191) Read the statement and select the correct terminology for the same: "Carrying away of inorganic compounds of soil by water". (a) Eluviation (b) Fragmentation (c) Humification (d) Mineralisation 192) Complete the food chain by filling the link X: Paddy  $\sim$  Grassopper  $\sim$  Frog  $\sim$  X  $\sim$  Hawk (a) King cobra (b) Gorilla (c) Rabbit (d) Tasmanial wolf 193) Which of the following is abundant in rock deposits and guano? (a) Nitrogen (b) Phosphorous (d) Calcium (c) Oxygen 194) The bottom most zone of a pond is termed as . (c) Benthic zone (a) Limnetic zone (b) Littoral zone (d) Profundal zone 195) Observe the figures and select the correct type of pyramid of numbers. (b) (d)A A Grassland Forest Forest Grassland Parasite Parasite Grassland Pond Forest Pond Forest Grassland ecosystemecosystem<mark>ecosy</mark>stemecosystemec 196) Lotic ecosystem refers to (a) Open water (b) Running water (c) Standing water (d) Ocean water ecosystem ecosystem ecosystem ecosystem 197) Identify the correct sequence of various zones from surface to depth in a pond ecosystem. (a) Profundal. (b) Benthic, littoral, (c) Limnetic, (d) Littoral, limnetic, profundal and limnetic profundal, littoral and profundal and benthic limnetic, littoral and benthic 198) Which type of ecosystem service does the genetic resources comes under? (a) Provisioning services (b) Supporting services (c) Regulating services (d) Cultural services 199) Assertion (A): Pyramid of energy is upright. Reason (R): During the energy transfer at successive trophic levels from producers there will be a gradual decrease (a) Both A and R are (b) A is right R is (c) R (d) A is right R is not the correct explains A explanation for A 200) Assertion (A): In forest ecosystem, the pyramid of number is spindle shaped. Reason (R): Tropical level (Tl) of the pyramid occupies large trees which are maxium in number. (a) Both A and R are (b) A is right R is (c) R (d) A is right R is not the correct wrong wrong explains A explanation for A 201) Succession initiating on a sand referred as (a) Hydrosere (b) Psammosere (c) Halosere (d) Lithosere 202) Statement (I): Allogenic succession occurs as a result of abiotic factors. Statement (II): Autogenic succession occurs as result of biotic factors. (a) Statement I is correct; (b) Statement I is (c) Both Statements (d) Both Statements

Statement II is incorrect. incorrect; Statement II is I and II are correct. I and II are incorrect. correct. 203) Statement (I): The first invaded plants in a barren area are called as pioneers. Statement (II): Marsh meadow stage of hydro sere succession is also called as amphibious (a) Statement I is correct; (b) Statement I is (c) Both Statements (d) Both Statements Statement II is incorrect, incorrect; Statement II is I and II are correct. I and II are incorrect. correct 204) is the climax community of hydro sere. (c) Shrub stage (b) Marsh medow stage (a) Reed swamp stage (d) Forest stage 205) is not a method of waste water treatment. (a) oxidation ponds (b) Anaerobic lagoons (c) Catalytic converter (d) Anaerobic bioreactor 206) Which is not a greenhouse gas? (d) CFC (a)  $CO_2$ (c)  $O_3$ 207) Identify the incorrect statement with regard to Global warming (a) Leads to species (b) Decrease (c) Increases vector (d) Frequent heat enrichment irrigation population waves 208) The total ozone layer over the earth surface is (d) 0.3 DU (b) 300 DU (c) 3000 DU (a) 30 DU 209) Methane is times as effective as CO<sub>2</sub> at trapping heat. (b) 10 (a) 5 (c) 20 210) Which is not a beneficial aspect of Agroforestry? (b) Balance in O<sub>2</sub> -(c) Suitable for wetland where (d) Reduces water cycling is improvedCO<sub>2</sub> composition rainfall is maximum run-off problem 211) Which is not reduced by deforestation? (a) Amount of (b) Amount of animal (d) Amount of (c) Amount of habitat population biodiversity agricultural land 212) Identify the potent cause for deforestation. (b) Soil erosion (c) Afforestation (d) Forest fire (a) Agriculture 213) Total number of forestry extension centres in Tamil Nadu is (a) 16 (b) 32 (c) 18 214) Who is celebrated as Forest Man of India? (a) Anand Mohan (b) Dr. M.S. (c) Jadav Molai (d) Choudhary Ram Swaminathan Chakrabarthy Payeng Dhan 215) Invasive species (a) alter the soil system (b) are more adapted (c) are fast growing (d) all the above 216) Pick out the odd one out (a) Biosphere reserve (b) National parks (c) Wild life sanctuaries (d) Botanical gardens 217) Which is not true with respect to prosopis julifiora? (a) Invasive species (b) Arrest (c) Absorb hazardous (d) Decreases O<sub>2</sub> content wind erosion chemical from soil native to Mexico of water bodies 218) How many numbers of sacred grooves were documented in Tamil Nadu? (a) 484 219) Biochar is (i) a kind of char coal used as a soil amendment (ii) a potent way of sequestering carbon (iii) made from biomass via pyrolysis (iv) a notable solid, rich in carbon. (a) (i) and (ii) is (b) (ii) and (iv) is (c) (i) and (ii) is (d) all the above is correct correct correct 220) Which is not a true statement regarding rainwater harvesting? (a) Mitigates groundwater (b) Reduces soil (c) Decreases soil (d) No wastage of land for quality erosion salinity storing 221) EIA stands for (b) Environmental (a) Ecological (c) Environmental (d) Environmental Information Analysis Information Assessment Impact Analysis Impact Assessment 222) is the 100<sup>th</sup> Satellite launched to watch border surveillance. (a) GSAT-6A (b) SCAT SAT-I (c) INSAT 3DR (d) CARTOSAT-2 223) The ozone layer of is called bad ozone. (d) Exosphere (a) Stratosphere (b) Mesosphere (c) Troposphere 224) When does World Ozone Day is observed? (a) June 17<sup>th</sup> (c) October 12<sup>th</sup> (d) September 16<sup>th</sup> (b) December 1st 225) Clean Development Mechanism (CDM) is defined in (a) Copenhagen Acord (b) Montreal Protocol (c) Paris Agreement (d) Kyoto Protocol

226) is a plant species which acts as an indicator of Nitrate pollution.	
(a) Petunia (b) Lichens (c) Gladiolus (d) Pinus	
<ul><li>227) Identify the plant species that is not used as a live fence.</li><li>(a) Sesbania grandiflora (b) Acacia species (c) Petunia species (d) Erythrina species</li></ul>	
228) Assertion (A): CO <sub>2</sub> is a main cause for global warming	
Reason (R): Greenhouse gases trap the radiant heat from sun	
(a) A is correct R is (b) A is incorrect R is (c) R explains (d) Both A and R are	
incorrect. correct. A. incorrect.  229) Assertion (A): Ozone acts as a natural sunblock.	
Reason (R): UV rays reaching the earth are deviated from earth.	
(a) A is correct R is (b) A is incorrect R is (c) R explains (d) Both A and R are	
incorrect. correct. A. incorrect.	
230) Assertion (A): Social forestry refers to management of forests and afforestation on barren lands.	
Reason (R): Afforestation involves the cutting of trees.	
(a) A is correct R is (b) A is incorrect R is (c) R explains (d) Both A and R are	
incorrect. correct. A. incorrect.	
231) Assertion (A): Prosopis juliflora is native to Afghanistan.	
Reason (R): Alien species refers to non-native species.  (a) A is correct R is  (b) A is incorrect R is  (c) R explains (d) Both A and R are	
incorrect. correct. A. incorrect.	
232) Assertion (A): In zoological parks, the animals are maintained in their natural habitat.	
Reason (R): Ex-situ conservation refers to protecting species in their natural habitat.	
(a) A is correct R is (b) A is incorrect R is (c) R explains (d) Both A and R are incorrect.  A. incorrect.	
233) is the process of bringing a plant species under human control.	
(a) Emasculation (b) Hybridization (c) Domestication (d) Acclimatization	
234) Which of the following scientist developed world's first cotton hybrid?	
(a) Dr. B.P. Pal (b) C.T. Patel (c) Dr. K. Ramiah (d) N.G.P. Rao 235) Identify the incorrect statement:	
(a) Bio-inoculants are (b) Bio-inoculants are (c) Bio-inoculants are	
efficient in solubilising ecofriendly organic obtained from dead designed to improve	
phosphate agro outputs organic matters soil fertility	
236) Which is not a free-living nitrogen-fixing species?  (a) Azotobacter  (b) Clostridium  (c) Nostoc  (d) Anabaena	
237) Arbuscular mycorrhizae is a symbiotic association between	
(a) Algae and (b) Angiosperm roots (c) Blue-green algae and (d) Cyanobacteria and	
fungi and fungi Azolla fern corolloid root  238) Azolla is best suited biofertilizer for	
(a) Sugar cane cultivation (b) Paddy cultivation (c) Wheat cultivation (d) Cotton cultivation	
239) Assertion (A): SLF promotes vigorous growth and provide resistance against diseases.	
Reason (R): SLF is made from kelp containing more than 70 minerals.	
(a) Both A and R are true. R (b) A is true R is (c) A is false R is (d) Both A and R are explains A.  (b) A is true R is (c) A is false R is (d) Both A and R are false	
240) Assertion (A): Pure line varieties show homozygosity.	
Reason (R): Pure line species are obtained through cross-pollination.	
(a) Both A and R are true. R (b) A is true R is (c) A is false R is (d) Both A and R are	
explains A. false true false 241) Assertion (A): Hybrids show increased growth and elevated yield.	
Reason (R): F1 hybrids show Heterosis.	
(a) Both A and R are true. R (b) A is true R is (c) A is false R is (d) Both A and R are	
explains A. false true false	
242) Statement (1): Trichoderma species is a free-living bacteria.	
Statement (2): It acts as a potent bio-control agent  (a) Statement 1 is correct (b) Statement 1 is incorrect (c) Both the (d) Both the	
and Statement 4 is incorrect and Statement 2 is correct statements are statements are	
correct incorrect	
243) Statement (1): Clonal selection is carried out in asexually propagating plants.  Statement (2): Clones show similar genotypes.	
(a) Statement 1 is correct (b) Statement 1 is incorrect (c) Both the (d) Both the	
and Statement 2 is incorrect and Statement 2 is correct statements are statements are	
correct incorrect	
244) Identify the proper sequence of hybridisation technique  (a) Emasculation (b) Harvesting (c) Selection (d) Selection	
(-) (-) (-)	

→ Selection	→ Selection	→ Harvesting	$\rightarrow$ Emasculation	
→ Bagging	→ Crossing	→ Crossing	→ Bagging	
<ul><li>→ Crossing</li><li>→ Harvesting</li></ul>	<ul><li>→ Emasculation</li><li>→ Bagging</li></ul>	→ Emasculation → Bagging	<ul><li>→ Crossing</li><li>→ Harvesting</li></ul>	
•	dization is also termed as		Trairesting	
(a) Intravarietal	(b) Intervarietal	(c) Interspecific	(d) Intergeneric	
hybridization	hybridization	hybridization	hybridization	
phenomenon is term	rids over parents only in	vegetative growth not in	yield. This	
		(c) Luxuriance (d)	Mutational heterosis	
247) The term green re		(-)		
* /	(b) M.S. Swaminath	\ /		
	called as the "father of gro (b) Dr. M.S. Swaminat		? alvar (d) N.G.P. Rao	
	ety of Brassica species sh		* *	
(a) White rust	(b) Leaf curl	(c) Black rot	(d) Hill bunt	
	ed Atomic Garden in Indi		1-1 (1) D	
(a) Bhabha Atomic Research Institute		ntre for(c) Indian Agric Research Institut		
researen institute	Titoline Research	Research institut	Institute	
251) Triticale is polyplo				
	x (b) Triticum durum x			
Secale sativus 252) Raphanobrassica i	Secale cereale	Secale sativus	Secale cereale	
(a) Autopolyploid	(b) Allopolyploid	(c) Polyploid	(d) Polysomy	
	roved variety of		(")5	
(a) Rice	(b) Maize (c	Wheat (d	l) Spinach	
	ty of okra is resistant aga		(1) I ! !	
(a) Aphids (b) 255) Damping off of to	* *	shoot and fruit borers	(d) Jassids	
		les (c) Acacia species (	d) Pseudomonas species	
256) Atomita 2 - rice is				
	ing (b) Hybridization	(c) Mutation breeding	(d) Clonal selection	
257) Luxuriance is the		-) II-d-::d- (d) N	fortuna livra da	
(a) Heterosis	(b) Anthesis (c) Sorghum, etc., comes un	, ·	Mutant breeds	
•	which of the following far		ais. All the members	
	(b) Poaceae (c) Le		Caesalpinaeceae	
	n names of the given plan	nt species with their resp	ective binomial	
	Vigna radiata			
(B) Lady's finger (II (C) Wheat (II	I) Oryza sativa			
	/)Abelmoschus esculentu	is C		
	(b) A-ii, B-iii, C-i (c	A - i, B - iii, C - iv	(d) A - i, B - ii, C - iv	
and D-i			and D - iii	
	he plant species and their	parts used. Which is the	incorrect pair(s)?	
<ul><li>(i) Cajanus cajan : S</li><li>(ii) Anacardium occ</li></ul>		•		
(iii)Borassusflabelli				
(iv) Capsicum annu	=			
(a) i and ii	(b) ii and iii	(c) iii only	(d) iv only	
261) Identify the tamil		(-) <b>D</b>	(1) II'	
(a) Nel 262) Pigeon pea is the o	(b) Aval	(c) Pori	(d) Umi	
(a) Vigna radiata		(c) Cajanus cajan	(d) Sorghum vulgare	
, , <u> </u>	his hypogea belongs to Fa	, ,	., 5	
Statement 2: It is a r				
	orrect (b) Statement 1 is	(c) Statement 1 i	` /	
and Statement 2 is a correct	lso correct and Statem is incorrect	is correct	tement 2Statements are incorrect	
	ese discovered the paper.	15 0011001	momor	
		e widely used tree specie	es for making paper pulp.	
(a) Statement 1 is c	orrect (b) Statement 1 is	(c) Statement 1 i	s (d) Both the	
and Statement 2 is a	Iso correct and Statem	ent 2 incorrect and Star	tement 2Statements are	

correct	is incorrect	is correct	incorrect	
265) Statement 1: Androg	graphis paniculata is known a	s King of Bitters.		
	oction of Andrographis is used	•	ellitus.	
	rrect (b) Statement 1 is	(c) Statement 1 is	(d) Both the	
and Statement 2 is also		· /	ment Statements are	
correct	is incorrect	2 is correct	incorrect	
266) Statement 1: Aloe v	era belongs to the family Asp	hodelaceae.		
	m grandiflorum belongs to the			
	rrect (b) Statement 1 is	(c) Statement 1 is	(d) Both the	
and Statement 2 is also		\ /	· /	
correct	is incorrect	is correct	incorrect	
267) Assertion (A): Turn	neric is used to treat cancer.			
3 7	n is biomolecule present in tur	meric.		
	b) Both A and R are (c) A		and R are right. R	
wrong v	vrong right	explai	ns A.	
268) Assertion (A): Black	k pepper is a spice.			
	nts are flavouring substances,	generally added after	er the cooking of food.	
(a) A is right R (b)	R (c) Both A and R are	e right. R is not corre	ect (d) Both A and R	
is wrong expl	lains A explanation for A.		are wrong	
269) Select the new worl	d species of cotton.			
(i) Gossypium hirsutu	.m			
ii) Gossypium barbad	ense			
(iii) Gossypium arboro				
(iv) Gossypium herba				
		i and iv only (	d) ii and iv only	
270) The plant source of	• • • • • • • • • • • • • • • • • • • •		,	
(a) Andrograph is	(b) Phyllanthus	(c) Cannabis	(d) Papaver	
paniculata	maderspatensis	sativa	somniferum	
271) Identify the incorrec	et statements:			
•	as potent hepatoprotective.			
	d as a strong analgesic in surg	ery.		
· · ·	s used to cure skin diseases.			
* 7	aris is widely used for treating	bone fractures.		
(a) a and c			(d) a and b	
272) Identify the mismate				
		c) Vilvam - (c	l) Veldt grape - Cissus	
			uadrangularis	
	, 4 O	3		
SURSC	RIRE AND PRESS RELL BUTTON	FOR DAILY NOTIFIC	ATION	

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#### MCQ ZOO CREATIVE 1

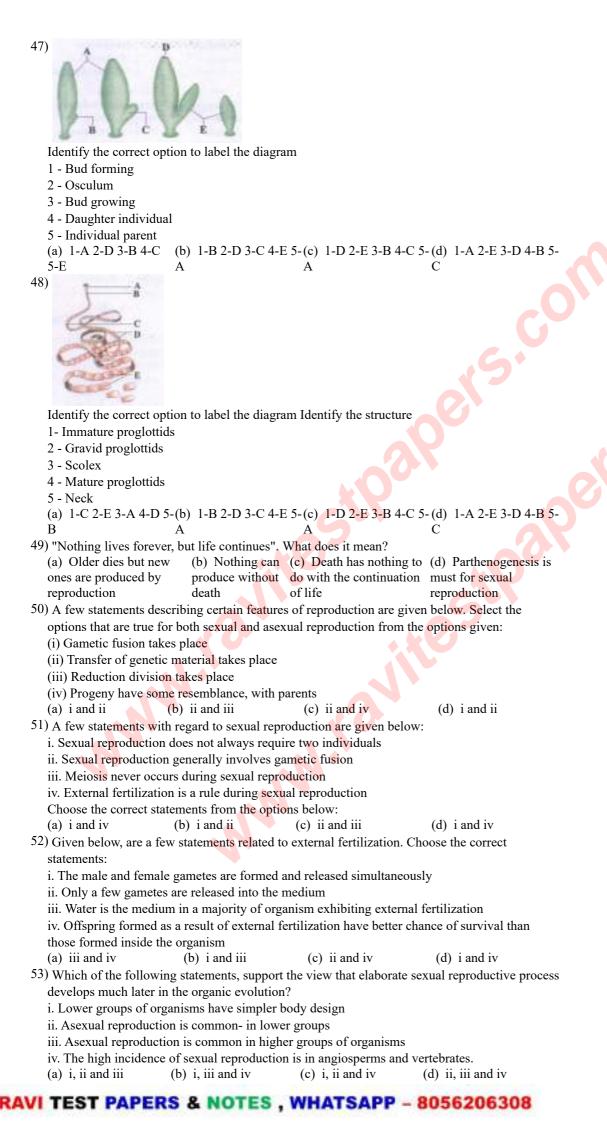
12th Standard

**Biology** 

 $311 \times 1 = 311$ 

1) Transverse Binary fission is seen			
(a) Vorticella (b) Param	` '		(d) Euglena
2) In, dinoflagellates the types of a	sexual reproduction s	seen is	
(a) Simple Binary (b) Mul			
fission fission		fissio	on
3) Multiple fission is seen in			
(a) Vorticella and (b) Plasmo			
ceratium paramecium	· ·	bacteria	plasmodium
4) During favourable conditions	shows multiple	e fission.	
(a) Plasmodium (b)	Amoeba (	c) Planaria	(d) Euglena
5) Plasmotomy is observed in			
5) Plasmotomy is observed in(a) Giant Amoeba(b	Hydra (c) Pl	lasmodium	(d) Ceratium
6) Giant Amoeba refers to			
(a) Opalina (b) Pelomy?	ka (c) Cerati	um (d) Tri	chonympha
7) is seen in Aurelia.	( )	( )	
(a) Binary fission (b) Re	egeneration (c)	Sporulation (	(d) Strobilation
8) Budding is seen in	-gonorumen (o)	, spermanen	
(a) Noctiluca (b) A	moeba (c)	) Nostoc	(d) Planaria
9) Gemmules are	(0)	) Troblet	(d) Transfer
(a) Exogenous growth (b) D	aughter nuclei (c)	Internal buds (d	Regenerated parts
10) Regeneration is not seen in		internal buds (C	n Regenerated parts
(a) Starfish (b) Lizard		(d) Sea A	nemone
(a) Starrish (b) Lizard	ı (c) Hyura	(u) Sea A	inemone
11) Autogamy is seen in(b)	Dl J	(a) II-, I.,	(4) A1
12) If the entire organism behaves a			
(a) Autogamy (b) Syng		phallaxis	(d) Hologamy
13) Conjugation is a type of	- 412		
(a) Asexual reproduction (b)			
14) Conjugation is seen in(a) Vorticella (b) Amoe			
		es (d) Actin	osphaerium
15) Paedogamy is the sexual union	of		
15) Paedogamy is the sexual union (a) morphologically (b) physic	of ologically (c) youn	g individuals imme	ediately (d)
15) Paedogamy is the sexual union	of ologically (c) youn	g individuals imme	ediately (d) ents dissimilar
15) Paedogamy is the sexual union (a) morphologically (b) physic different gametes different g	of ologically (c) youn	g individuals imme	ediately (d)
15) Paedogamy is the sexual union (a) morphologically (b) physic different gametes different g  16) is a seasonal breeder.	of	g individuals imme formation from par	ediately (d) ents dissimilar
15) Paedogamy is the sexual union (a) morphologically (b) physic different gametes different g	of	g individuals imme formation from par	ediately (d) ents dissimilar
15) Paedogamy is the sexual union (a) morphologically (b) physic different gametes different g  16) is a seasonal breeder.	of	g individuals imme formation from par (c) Deers	ediately (d) ents dissimilar gametes
<ul> <li>15) Paedogamy is the sexual union <ul> <li>(a) morphologically (b) physic</li> <li>different gametes different g</li> </ul> </li> <li>16) is a seasonal breeder. <ul> <li>(a) Poultry (b) Hone</li> </ul> </li> <li>17) Technique used for cultivation of the sexual union of t</li></ul>	of	g individuals imme formation from par (c) Deers	ediately (d) ents dissimilar gametes
<ul> <li>15) Paedogamy is the sexual union <ul> <li>(a) morphologically (b) physic</li> <li>different gametes different g</li> </ul> </li> <li>16) is a seasonal breeder. <ul> <li>(a) Poultry (b) Hone</li> </ul> </li> <li>17) Technique used for cultivation (a) Multiple fission (b) Page 10.</li> </ul>	of	g individuals immer formation from par (c) Deers	ediately (d) ents dissimilar gametes  (d) Rabbit
<ul> <li>15) Paedogamy is the sexual union <ul> <li>(a) morphologically (b) physic</li> <li>different gametes different g</li> </ul> </li> <li>16) is a seasonal breeder. <ul> <li>(a) Poultry (b) Hone</li> </ul> </li> <li>17) Technique used for cultivation of the sexual union of t</li></ul>	of (c) youngametes after the set of sponges is based of arthenogenesis	g individuals immer formation from par (c) Deers on (c) Regeneration	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy
15) Paedogamy is the sexual union  (a) morphologically (b) physic different gametes different g  16) is a seasonal breeder.  (a) Poultry (b) Hone different guarder of the seasonal breeder.  (a) Poultry (b) Hone different guarder of the seasonal breeder.  (a) Multiple fission (b) Poultry (b) Poultry (c) Poultry	of (c) youngametes after the set of sponges is based of arthenogenesis	g individuals immer formation from par (c) Deers on (c) Regeneration	ediately (d) ents dissimilar gametes  (d) Rabbit
15) Paedogamy is the sexual union (a) morphologically (b) physic different gametes different gametes.  16) is a seasonal breeder. (a) Poultry (b) Hone (a) Multiple fission (b) Poultry (a) Multiple fission (b) Poultry (b) Rept (b) Rept (b) Breeder. (a) Mammals and (b) Rept (b) Rept (c) Sponges	of	g individuals immer formation from par (c) Deers on (c) Regeneration	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and
15) Paedogamy is the sexual union  (a) morphologically (b) physic different gametes different g  16) is a seasonal breeder.  (a) Poultry (b) Hone (c)	of	g individuals immer formation from par (c) Deers (c) Regeneration (d) amp	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and shibians
15) Paedogamy is the sexual union  (a) morphologically (b) physic different gametes different gametes  16) is a seasonal breeder.  (a) Poultry (b) Hone (b) Hone (c) Hon	of	g individuals immer formation from par (c) Deers on (c) Regeneration	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and
15) Paedogamy is the sexual union  (a) morphologically (b) physic different gametes different gametes  16) is a seasonal breeder.  (a) Poultry (b) Hone (a) Multiple fission (b) Poultivation (a) Multiple fission (b) Poultivation (a) Multiple fission (b) Rept (b) Rept (b) Brook (b) Rept (c) Mammals and (c) Rept (c) Mammals (d) Monocystis (d) Mammals (d) Monocystis (e) Mammals (e) Mam	of	g individuals immer formation from par (c) Deers (c) Regeneration (d) amp	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and shibians  (d) Reptiles
15) Paedogamy is the sexual union  (a) morphologically (b) physic different gametes different gametes.  16) is a seasonal breeder.  (a) Poultry (b) Hone (a) Multiple fission (b) Particular (b) Rept (b) Broad (c) Mammals and (c) Rept (c) Broad (c) Broad (c) Monocystis (c) Mammals (c) Monocystis (c) Mammals (c) Broad (c) Monocystis (c) Mammals (c) Broad (c) Br	of	g individuals immer formation from par (c) Deers (c) Regeneration (d) amp	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and shibians
15) Paedogamy is the sexual union  (a) morphologically (b) physic different gametes different gametes.  (a) Poultry (b) Hone (a) Multiple fission (b) Particle (a) Multiple fission (b) Particle (a) Mammals and (b) Rept birds sponges (b) Isogamy is observed in (a) Monocystis (b) Maran Beings exhibit (a) Hologamy (b) Exogamy is seen in	of	g individuals immers formation from par  (c) Deers  (c) Regeneration  Fishes and (d)  amprichonympha  egamy (d) I	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and chibians  (d) Reptiles  Paedogammy
15) Paedogamy is the sexual union (a) morphologically (b) physic different gametes different gametes  16) is a seasonal breeder. (a) Poultry (b) Hone (c) Hone	of	g individuals immer formation from par (c) Deers (c) Regeneration (d) amp	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and shibians  (d) Reptiles
15) Paedogamy is the sexual union  (a) morphologically (b) physic different gametes different gametes  16) is a seasonal breeder.  (a) Poultry (b) Hone 17) Technique used for cultivation (a) Multiple fission (b) Pounce 18) External fertilization is seen is (a) Mammals and (b) Rept birds sponges  19) Isogamy is observed in (b) Mauron beings exhibit (a) Monocystis (b) Mauron 19 Paedogenesis is seen in (a) Gall fly (b) Hone 19 Ovovivipary is seen in (c)	of	g individuals immers formation from par  (c) Deers (c) Regeneration  (d) amprichonympha  (e) Aphis	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and chibians  (d) Reptiles  Paedogammy  (d) Hydra
15) Paedogamy is the sexual union  (a) morphologically (b) physic different gametes different gametes  16) is a seasonal breeder.  (a) Poultry (b) Hone (a) Multiple fission (b) Poultry (b) Rept (b) External fertilization is seen is (a) Mammals and (b) Rept (b) Brook (b) Markey (c) Human beings exhibit (a) Hologamy (b) Exo (b) Exo (c) Paedogenesis is seen in (a) Gall fly (b) Hone (c) Solenobia (b)	of	g individuals immersormation from particles and (d) amprichonympha  (c) Aphis (c) Birds	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and chibians  (d) Reptiles  Paedogammy
15) Paedogamy is the sexual union  (a) morphologically (b) physic different gametes different gametes  16) is a seasonal breeder.  (a) Poultry (b) Hone (a) Multiple fission (b) Poultry (b) Rept (b) External fertilization is seen is (a) Mammals and (b) Rept (b) Brook (b) Markey (c) Human beings exhibit (a) Hologamy (b) Exo (b) Hone (a) Gall fly (b) Hone (a) Gall fly (b) Hone (a) Solenobia (b) 23) Which statement is incorrect re	of	g individuals immers formation from par  (c) Deers on (c) Regeneration  Tishes and (d) amprichonympha ogamy (d) I (c) Aphis (c) Birds inary fission?	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and shibians  (d) Reptiles  Paedogammy  (d) Hydra  (d) Shark
15) Paedogamy is the sexual union (a) morphologically (b) physic different gametes different gametes  16) is a seasonal breeder. (a) Poultry (b) Hone 17) Technique used for cultivation (a) Multiple fission (b) Particle (a) Mammals and (b) Rept birds sponges 19) Isogamy is observed in (a) Monocystis (b) Marticle (b) Human beings exhibit (a) Hologamy (b) Exogamy is seen in (a) Gall fly (b) Hone 22) Ovovivipary is seen in (a) Solenobia (b) 23) Which statement is incorrect reface (a) Transverse binary (b) Lore	of	g individuals immers formation from par  (c) Deers  (c) Regeneration  Fishes and (d)  amprichonympha  ogamy (d) I  (c) Aphis  (c) Birds  inary fission?  Oblique binary	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and shibians  (d) Reptiles  Paedogammy  (d) Hydra  (d) Shark  (d) Simple binary
15) Paedogamy is the sexual union (a) morphologically (b) physic different gametes different gametes  16) is a seasonal breeder. (a) Poultry (b) Hone 17) Technique used for cultivation (a) Multiple fission (b) P. 18) External fertilization is seen is (a) Mammals and (b) Rept birds sponges 19) Isogamy is observed in (a) Monocystis (b) Ma 20) Human beings exhibit (a) Hologamy (b) Exo 21) Paedogenesis is seen in (a) Gall fly (b) Hone 22) Ovovivipary is seen in (a) Solenobia (b) 23) Which statement is incorrect re (a) Transverse binary (b) Lor fission in seen fission in fission in seen [a]	of	g individuals immers formation from par  (c) Deers  (c) Regeneration  (d) amprichonympha  (e) Aphis  (c) Birds  inary fission?  Oblique binary  sion in seen in	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and chibians  (d) Reptiles  Paedogammy  (d) Hydra  (d) Shark  (d) Simple binary fission in seen in
15) Paedogamy is the sexual union (a) morphologically (b) physic different gametes different gametes  16) is a seasonal breeder. (a) Poultry (b) Hone (a) Multiple fission (b) P. (b) Technique used for cultivation (a) Multiple fission (b) P. (c) P. (d) Mammals and (d) Rept (e) Brids (e) Sponges  19) Isogamy is observed in (e) Man (e) Monocystis (f) Ma. (e) Human beings exhibit (e) Human beings exhibit (e) Human beings exhibit (e) Gall fly (f) Exo (e) Covovivipary is seen in (a) Gall fly (b) Hone (e) Covovivipary is seen in (a) Solenobia (b) Covovivipary is seen in (a) Solenobia (b) Lor fission in seen fission in Eugle (c) Transverse binary (b) Lor fission in seen fission in Eugle (c) Covovivipanal (c) Evolution (c) P. (c) P. (d) P. (d) P. (e)	of	g individuals immers formation from par  (c) Deers  (c) Regeneration  (d) amprichonympha  (e) Aphis  (c) Aphis  (b) Birds  (c) Birds  (c) Birds  (c) Birds  (d) Incompany  (e) Aphis  (f) Birds  (g) Birds  (g) Birds  (h) B	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and shibians  (d) Reptiles  Paedogammy  (d) Hydra  (d) Shark  (d) Simple binary
15) Paedogamy is the sexual union (a) morphologically (b) physic different gametes different gametes  16) is a seasonal breeder. (a) Poultry (b) Hone (c) Hone	of	g individuals immers formation from par  (c) Deers  (c) Regeneration  (d) amprichonympha  (e) Aphis  (c) Aphis  (c) Birds  inary fission?  Oblique binary  tion in seen in gellates ction except	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and chibians  (d) Reptiles  Paedogammy  (d) Hydra  (d) Shark  (d) Simple binary fission in seen in Amoeba
15) Paedogamy is the sexual union  (a) morphologically (b) physic different gametes different gametes  16) is a seasonal breeder.  (a) Poultry (b) Hone (a) Multiple fission (b) Poultry (b) Hone (a) Multiple fission (b) Poultry (c) Poultry (	of	g individuals immer formation from particles and (d) amprichenympha (e) Aphis (c) Aphis (c) Birds inary fission? Oblique binary sion in seen in gellates ection except porulation (d)	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and shibians  (d) Reptiles  Paedogammy  (d) Hydra  (d) Shark  (d) Simple binary fission in seen in Amoeba  Fragmentation
15) Paedogamy is the sexual union  (a) morphologically (b) physical different gametes different gametes  16) is a seasonal breeder.  (a) Poultry (b) Hone  17) Technique used for cultivation (a) Multiple fission (b) Particle (a) Mammals and (b) Rept (b) Brook (b) Brook (c) Particle (a) Mammals and (b) Rept (b) Brook (c) Particle (a) Monocystis (b) Marticle (a) Monocystis (b) Marticle (a) Hologamy (b) Exoce (a) Gall fly (b) Hone  20) Human beings exhibit (a) Gall fly (b) Hone  21) Paedogenesis is seen in (a) Gall fly (b) Hone  22) Ovovivipary is seen in (a) Solenobia (b) Core (a) Transverse binary (b) Lore fission in seen fission in Planaria. in Eugle  24) All of the following are method (a) Regeneration (b) Core (b) This is a method of sexual representation (c) Particle (d) Partic	of	g individuals immer formation from particles and (d) amprichenympha  (c) Regeneration  Gishes and (d) amprichenympha  (c) Aphis  (c) Birds  inary fission?  Oblique binary  sion in seen in gellates  ction except  porulation (d)  dividuals of the sam	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and shibians  (d) Reptiles  Paedogammy  (d) Hydra  (d) Shark  (d) Simple binary fission in seen in Amoeba  Fragmentation me species temporarily
15) Paedogamy is the sexual union  (a) morphologically (b) physic different gametes different gametes  16) is a seasonal breeder.  (a) Poultry (b) Hone (a) Multiple fission (b) Poultry (b) Hone (a) Multiple fission (b) Poultry (c) Poultry (	of	g individuals immer formation from particles and (d) amprichenympha (e) Aphis (c) Birds inary fission? Oblique binary sion in seen in gellates ction except porulation (dividuals of the sanial and then get sep	ediately (d) ents dissimilar gametes  (d) Rabbit  (d) Autogamy  Sponges and shibians  (d) Reptiles  Paedogammy  (d) Hydra  (d) Shark  (d) Simple binary fission in seen in Amoeba  Fragmentation me species temporarily

26) All the following animals are continuous breeders, except. (b) Honey bees (c) Poultry (d) Rabbit 27) In honey bees, the mode of reproduction is (a) Sexual and (c) Asexual and (b) Sexual and (d) All the Asexual Parthenogenesis Parthenogenesis above 28) In honey bees, the unfertilized egg produces (a) Queen bee (b) Worker bee (c) Drones (d) Worker bee and male honey bee 29) This is the sexual union of young individuals produced immediately after the division of the adult parent cell by mitosis. (d) Anisogamy (a) Paedogamy (b) Hologamy (c) Merogamy 30) Paramecium and planaria show types of division during asexual reproduction (b) Longitudinal binary (c) Simple binary (d) Oblique binary (a) Transverse binary fission fission fission fission 31) Special type of transverse division seen in Aurelia is called (b) strobilation (a) plasmotomy (c) pedal laceration (d) sporulation 32) Fragmentation in sea Anemone is also known as (a) morphallaxis (b) pedal laceration (c) archaeocytes (d) epimorphosis 33) Endogenous buds are seen in (d) Noctiluca (a) Trichonympha (b) Hydra (c) Actinosphaerium 34) The gravid proglottids are cut off from the parent body in (c) Planaria (a) Tapeworm (Taenia solium) (b) Liver fluke (d) Blood fluke 35) Regeneration was first studied by (d) Walter Gilbert (a) A.G. Tansley (b) Charles Bonnet (c) Abraham Trembley 36) Regeneration was first studied in (a) star fish (b) Planaria (c) Hydra (d) Aurelia 37) Starfish shown type of regeneration. (a) epimorphosis - reparative (b) epimorphosis (restorative) (c) morphallaxis (d) paedogenesis 38) The sexual union of young individuals produced immediately after the division of the parent Cellis called (a) Paedogamy (b) hologamy (c) merogamy (d) isogamy refers to the fusion of small sized, morphologically different gametes. (b) Hologamy (c) Paedogamy (a) Isogamy (d) Merogamy 40) Fusion of morphologically and physiologically similar gametes is called (b) hologamy (c) isogamy (a) anisogamy (d) merogamy 41) Exchange of certain amount of nuclear material during sexual reproduction is called (a) strobilation (b) conjugation (c) pedal laceration (d) sporulation 42) Paedogenetic parthenogenesis is seen in (a) planula larvae of (b) Cydippid larvae of (c) Redia larvae (d) Trochophore larvae pleurobranchia ofliver fluke of Annelids enidarians 43) In types of natural parthenogenesis only females are produced. (a) Thelytoky (b) Arrhenotoky (c) Amphitoky (d) Arrhenotoky 44) is a process by which the proglottids are cut off from the tapeworm. (a) Apolysis (b) pedal laceration (c) budding (d) plasmotomy 45) In types of parthenogenesis egg can develop into individuals of any sex. (a) Thelytoky (b) paedogenesis (c) Amphitoky (d) Arrhenotoky 46) Identify the correct option to label the diagram 1 - Archaeocytes 2 - Inner membrane 3 - Micropyle 4 - Outer membrane 5 - Monaxonspicules (a) 1-A 2-D 3-B 4-C (b) 1-C 2-B 3-A 4-E 5-(c) 1-D 2-E 3-B 4-C 5-(d) 1-A 2-E 3-D 4-B 5-5-E



54) T	
54) Transverse binary fission is noticed in (a) Amoeba (b) Planaria (c) Ceratium	(d) Vorticella
55) Multiple fission occurring in the oocyte of Plasmodium is called	
(a) Schizogony (b) Merogamy (c) Syngamy	(d) Sporogony
56) Taenia solium requires as a secondary host	* * * * * * * * * * * * * * * * * * * *
(a) Mosquito (b) pig (c) dog	(d) human
57) Which type of parthenogenesis only females are produced?	(u) numan
(a) Arrhenotoky (b) Amphitoky (c) Thelytoky	(d) Both (a) and (b)
58) Which among the following animal is not a continuous breeder?	
(a) Hen (b) Rabbit (c) Honey bees	(d) Frogs
59) Identify the incorrect statement regarding parthenogenesis.	(d) 110gs
,	nibit (d) Amphitoky is a type
sperm without discovered by Charles incomplete	of natural
fertilization. Bonnet. parthenogenesis	parthenogenesis.
60) Identify the wrong statement.	p.m.monogenesis:
(a) Oviparous (b) Viviparous animals (c) Ovoviviparous anim	nals lays (d) Amphibians
animals lays give rise to young ones eggs and then hatch it to	
eggs. ones.	animals
61) Assertion (A): Organisms show three phases in their life cycle.	
Reason (R): Juvenile phase is a degenerative phase.	
(a) A is correct R but (b) Both A and R (c) R is the correct	(d) A is not correct but
is incorrect are correct explanation for A	R is correct
62) Identify the mismatched pair.	Trib Contact
(a) Paedogenesis - Liver (b) Strobilation (c) Amphitoky	(d) Encystment
fluke - Aurelia - Honeybee	- Amoeba
63) Identify the proper sequence.	
	ase, (d) senescent phase,
senescent phase, maturity phase, maturity phase,	juvenile phase,
vegetative phase senescent phase juvenile phase	vegetative phase
64) Which of the following types of asexual reproduction is noticed	· ·
(a) Sporulation (b) Encystment (c) Binary fission	(d) All the above
65) Pick out the organism whose fertilization occurs internally	
	(d) amphibians
66) Assertion (A): Asexual reproduction is called blastogenic reprod	
Reason (R): It is accomplished by mitotic and meiotic divisions.	
(a) A and R are (b) A is correct but R is (c) Both A and R are	(d) R is the correct
correct incorrect incorrect	
67) Egg laying hen is an example for	
(a) Thelytoky (b) Ovovivipary (c) Vivipary	y (d) Ovipary
68) Assertion (A): Syngamy refers to the fusion of two haploid games	etes.
Reason (R): Syngamy leads to zygote formation.	· ·
(a) A and R are (b) A and R are (c) R is not the right	(d) A is correct but R is
correct. incorrect. explanation for A	incorrect
69) Identify the correct Sequence of reproductive events in human be	eings.
(a) (b)	(c) Implanatation, (d)
Insemination, implanatation Fertilization Parturition Implanatation	
and Placetation Parturition at	and Placetation Parturition and Placetation Implan
	and Pla
Spermatid $\stackrel{A}{\rightarrow}$ Spermatozoa what does 'A' stands for?	
(a) Spermatogenesis (b) Spermiation (c) Spermiogenesi	is (d) Gametogenesis
71) Assertion (A): The acrosome of the Sperm cell contains Sperm ly	· · · · · · · · · · · · · · · · · · ·
Reason (R): Sperm lysin destroys the deformed Sperm cells.	<i>y</i> 5
(a) R (b) A is right R is (c) A an R are right R does no	ot (d) Both A and R are
explains A wrong explains A	wrong
•	WICHE
72) are endocrine cells.	wiong
72) are endocrine cells. (a) Inhibitin (b) Leydig cells (c) Oogonia	•
(a) Inhibitin (b) Leydig cells (c) Oogonia	(d) Sertoli cells
(a) Inhibitin (b) Leydig cells (c) Oogonia 73) is not linked to male reproductive system.	(d) Sertoli cells
(a) Inhibitin (b) Leydig cells (c) Oogonia  73) is not linked to male reproductive system.  (a) Prostate gland (b) Corpus albicans (c) Cowper's gland	(d) Sertoli cells
(a) Inhibitin (b) Leydig cells (c) Oogonia  73) is not linked to male reproductive system.  (a) Prostate gland (b) Corpus albicans (c) Cowper's gland  74) Testosterone is secreted by	(d) Sertoli cells (d) bulbourethral glands
(a) Inhibitin (b) Leydig cells (c) Oogonia  73) is not linked to male reproductive system.  (a) Prostate gland (b) Corpus albicans (c) Cowper's gland  74) Testosterone is secreted by  (a) spermatocytes (b) sperm (c) polar bodies	(d) Sertoli cells
(a) Inhibitin (b) Leydig cells (c) Oogonia  73) is not linked to male reproductive system.  (a) Prostate gland (b) Corpus albicans (c) Cowper's gland  74) Testosterone is secreted by  (a) spermatocytes (b) sperm (c) polar bodies  75) is not a part of female reproductive system in human.	(d) Sertoli cells (d) bulbourethral glands
(a) Inhibitin (b) Leydig cells (c) Oogonia  73) is not linked to male reproductive system.  (a) Prostate gland (b) Corpus albicans (c) Cowper's gland  74) Testosterone is secreted by  (a) spermatocytes (b) sperm (c) polar bodies  75) is not a part of female reproductive system in human.	<ul><li>(d) Sertoli cells</li><li>(d) bulbourethral glands</li><li>(d) leydig cells</li><li>(d) Prostate gland</li></ul>

(7) The glands in human female are homologous to the prostate	gland in male.
(a) Bartholin's glands (b) Skene's glands (c) mammary glands	
is popularly known as sperm lysin.	(1)
(a) Inhibitin (b) Hyaluronidase (c) Androgen	(d) Acrosome
(9) The whole process of spermatogenesis takes about days.	(1) 70
(a) 25 (b) 42 (c) 64	(d) 72
(a) sperm is the smallest human cell. (b) neuron (c) nephron	(d) alveoli
(a) sperm (b) neuron (c) nephron  11) The corpus luteum secretes large amount of	(d) alveon
(a) testosterone (b) relaxin (c) oestrogen (d)	nrogesterone
is not linked to polymenorrhoea	progesterone
(a) Shorter cycle (b) Gland activity (c) Malnutrit	tion (d) Pain
may be due to cancer of the ovary.	
(a) Amenorrhoea (b) Dysmenorrhoea (c) Menorrhagia (	(d) Oligomenorrhoea
(4) is a berry shaped duster of cells.	
	(d) Zygote
(5) The term after birth refers to	
(a) Parturition (b) Lactation (c) Remains of placenta	(d) Corpus albicans
(6) 'Let Down' reflex for lactation is caused by	(1) P
(a) Prolactin (b) Oxytocin (c) Lactogenic hormone	
(d) vitalling (d	
(a) amnion (b) chorion (c) allantois (d) vitelling (s). The dividing embryo takes days to mayo to the uterus from the control of the control	the following tube
(a) 10 (b) 15 days to move to the uterus from the control of the dividing embryo takes (c) 4-5	(d) 2
(b) 13 (c) 13 (c) 13 (e) 15 (e	(d) 2
(a) physical (b) biochemical (c) both a and c	Enzyme mediated
00) The transfer of sperms by the male into the female genital tract is cal	
(a) implantation (b) parturition (c) insemination	
1) Attachment of blastocyst to the uterine wall is called	
(a) Implantation (b) Parturition (c) Insemination	(d) gastrulation
(2) Expulsion of baby from the mother's womb is called	
(a) implementation (b) parturition (c) insemination	(d) gestation
(3) Each testis is covered by a fibrous layer	
(a) tubulus rectus (b) corona radiata (c) vitelline membrane	(d) tunica albuginea
(a) chemoregulator (b) thermoregulator (c) enzyme regulator	(d) photo regulator
(a) chemoregulator (b) thermoregulator (c) enzyme regulator (b). The is the site for spermatogereis.	(d) photo regulator
(a) epididymis (b) vas deferens (c) seminiferous tubules	(d) tubulus rectus
(b) cells nourish the sperms.	(a) tabaras rectas
(a) Leydig cells (b) Interstitial cells (c) Spermatogonic cells	(d) Sertoli cells
is a hormone produced by sertoli cells.	
(a) Inhibin (b) Progesterone (c) Testosterone	(d) Oestrogen
100 TEL 11 C.1	
(a) sertoli (b) leydig (c) nurse (d) sperm	atogonic
(c) relaxin	
(a) estrogen (b) progesterone (c) relaxin	(d) androgens
00) stores the sperms temporarily until they mature.	(1) 1 C
(a) testis (b) epididymis (c) vasa efferentia	(d) vas deferens
01) Bulbourethral glands are also called(a) prostate gland (b) Cowper's gland (c) Skene's glands (	(d) Parthalin's glands
(a) prostate gland (b) Cowper's gland (c) Skene's glands (02) The seminal fluid has a coagulating enzyme called (a) vesiculase (b) hyaluronidase (c) amylase (03) The provinced part of the following tube bears a funnel shaped	(d) Bartholli s glands
(a) vesiculase (b) hyaluronidase (c) amylase	(d) lactase
03) The proximal part of the fallopian tube bears a funnel shaped	(d) lactase
(a) Graafian follicle (b) Oogonia (c) Infundibulum	
04) The finger shaped in the female reproductive system collections	· · · · · ·
	(d) Isthmus
05) is the birth canal.	
(a) Cervix (b) Cervical canal (c) Uterus	(d) Vagina
06) A mature follicle produces polar bodies during oogenesis.	
(a) four (b) three (c) two	(d) one
07) The glands occur posterior to the vagina.	
8 F	
(a) Skene's glands (b) Cowper's gland (c) prostate gland (	(d) Bartholin's glands
(a) Skene's glands (b) Cowper's gland (c) prostate gland (08) The glands are located on the anterior wall of vagina.  (a) Skene's glands (b) Bartholin's glands (c) prostate gland	

109) The thin ring of tissue that particularly closes the vaginal opening
(a) labia majora (b) hymen (c) labia minora (d) clitoris  110) The are modified sweat gland seen in both sexes
(a) Skene's glands (b) Bartholin's glands (c) Mammary gland (d) Cowper's gland 111) The spermatids are transformed into mature sperms by a process called
(a) spermiation (b) spermiogenesis (c) gametogenesis (d) oogenesis
112) Sperms are released into the cavity of the seminiferous tubule by a process called  (a) spermiogenesis (b) spermatogenesis (c) spermiation (d) gametogenesis
113) The unequal divisions during oogenesis results in small cells called
(a) oogonia (b) primary oocyte (c) secondary oocyte (d) polar bodies  114) Normal menstrual or ovarion cycle occurs once in days.
(a) 28/29 (b) 17/18 (c) 60/65 (d) 58/60
115) The ruptured Graafian follicle forms  (a) corpus luteum  (b) primary follicle  (c) oogonia  (d) secondary follicle
116) LH surge is seen in phase of menstrual cycle.  (a) follicular phase (b) luteal phase (c) ovulatory (d) menstrual
117) is a temporary endocine gland formed during pregnancy from the follicle.
(a) oestrogen (b) corpus luteum (c) progesterone (d) relaxin  118) The phase of menstrual cycle is also called secretory phase.
(a) Ovulatory (b) Menstrual (c) Luteal (d) Follicular
119) is a biochemical event which enables a sperm to fertilize an egg.  (a) Capacitation (b) Gastrulation (c) Spermiogenesis (d) Gametogenesis
120) The follicular cells of the ovum are held together by a substance called
(a) hyaluronidase (b) progesterone (c) oestrogen (d) hyaluronic acid  121) The prevents poly spermy.
(a) vitelline membrane (b) fertilization membrane (c) zona pellucida (d) corona radiata
122) The stage where the embryo looks like a fluid filled hollow ball is called  (a) trophoblast (b) morula (c) gastrula (d) blastocyst
123) The is a double layered embryonic membrane.  (a) chorion (b) amnion (c) allantois (d) yolksac
124) Human pregnancy lasts for days.
(a) 280 (b) 300 (c) 290 (d) 310 125) connects the foetus and maternal tissues.
(a) Chorionic villi (b) Uterus (c) Placenta (d) Corpus albicans
126) The contractions lead to false labour pains.  (a) Let - Down reflex (b) Ferguson reflex (c) Foetal ejection reflex (d) Braxter - Hicks
127) The foetal ejection reflex is also called reflex.  (a) Ferguson (b) Let - Down (c) Braxter - Hicks (d) Parturition
(a) Ferguson (b) Let - Down (c) Braxter - Hicks (d) Parturition  128) is a hormone secreted by the placenta and also found in the corpus luteum
(a) Oxytocin (b) Relaxin (c) Inhibin (d) Testosterone  129) The hormone brings about powerful contraction of uterine muscles during child birth.
(a) Relaxin (b) Oestrogen (c) Progesterone (d) Oxytocin
130) The hormone produced by anterior pituitary plays a major role in lactation.  (a) oxytocin  (b) prolactin  (c) progesterone  (d) oestrogen
131) Colostrum has less than milk.
(a) protein (b) minerals (c) lactose (d) vitamin A  132) is a natural antimicrobial agent to stimulate the maturation of infants immune system.
(a) IgA antibodies (b) Amniotic fluid (c) Milk (d) Colostrum
133) is the first ejaculation of semen.  (a) Azospermia (b) Spermarche (c) Prostatits (d) Orchidectomy
134) Select the incorrect statement.  (a) LH and FSH (b) LH and FSH (c) LH triggers (d) FSH stimulates the
trigger ovulation decrease gradually secretion of androgens Sertoli cells which help in
in ovary during the follicular from the Leydig cells. spermiogenesis phase
135) Identify the correct statement on 'inhibition'.
(a) is produced by (b) is produced by (c) is produced by (d) inhibits the granulose cells in ovary granulose cells in ovary nurse cells in testes and secretion of LH,
and inhibits the secretion and inhibits the secretion inhibits the secretion of FSH and of FSH LH prolactin.
136) Several hormones like heG, hPL, oestrogen and progesterone are produced by
(a) ovary (b) placenta (c) fallopian tube (d) pituitary 137) Match column I with column II and select the correct option using the codes given below
Column I Column II

Column I Column II
A. Mono pubs 1. Embryo formation
B. Antrum 2. Sperm
C. Trophectoderm 3. Female external genitalia  D. Nebenkem 4. Graafian follicle
D. Nebelikelli 4. Graaffali follicie
(a) (b) (c) (d)
ABCD ABCD ABCD
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
138) Which one of the following is not the function of placenta?  (a) To facilitate supply of (b) To (c) To facilitate the removal of (d) To secrete
oxygen and nutrients to secrete carbondi oxide and material from oxytocin during
embryo oestrogen embryo parturition
139) The testes in human are situated outside the abdominal cavity inside a pouch called scrotum.
The purpose served is for  (a) escaping any  (b) providing more (c) providing a  (d) maintaining the scrotal
possible compression space for the secondary sexual feature temperature lower than
by the visceral organs. growth of for exhibiting the male internal body temperature
epididymis. sex
140) Hormones secreted by placenta to maintain pregnancy are  (a) hCG, hPL,  (b) hCG, hPL,  (c) hCG, hPL,  (d) hCG, progesterone,
progesterone, estrogen, relaxin, progesterone, estrogen, glucocorticoids
estrogen oxytocin prolactin
141) Match and select the correct option
Column I  a. Proliferative phase 1. Breakdown of endometrium lining
b. Secretory phase 2. Follicular phase
c. Menstruation 3. Luteal phase
(a) (b) (c) (d) albcl albcl
321 321 332
142) The developing spermatoza are nourished by
(a) Leydig cells (b) Sertoli cells (c) Follicular cells (d) Epididymis
143) Identify the correct sequence of reproductive events in human beings.  (a) Insemination, (b) Implantation, (c) Implantation, (d) Insemination,
(a) Insemination, (b) Implantation, (c) Implantation, (d) Insemination, Implantation, Fertilization, Insemination, Fertilization,
Fertilization, Insemination, Fertilization, Implantation,
Parturition and Placentation and Placentation and
Placentation Parturition. Placentation Parturition.  144) Which of the following statement is not correct?
(i) Interstitial cells are seen surrounding the seminiferous tubule.
(ii) Nurse cells secrete inhibin.
(iii)Males have single prostate gland which encircles the urethra.
(iv) Insemination, Fertilization, Implantation, Placentation, and Parturition.
(a) i and ii (b) iii only (c) iii and iv (d) iv only 145) Assertion (A): In scrotum, the temperature is maintained 2 - 3°C lower than body
temperature.
Reason (R): Reduced temperature results in efficient sperm production
(a) R (b) A is right R is (c) A and R are right. R does not (d) Both A and R are
explains A. wrong. explains A wrong 146) Assertion (A): Human ovum is non - cleidoic
Reason (R): Human does not contain yolk.
(a) R (b) A is right, R is (c) A and R are right. R does not (d) Both A and R are
explains A wrong explain A. wrong
147) Assertion (A): Menopause refers to the absence of menstruation during pregnancy.
Reason (R): Ovulation occurs during menstrual phase.  (a) R (b) A is right, R is (c) A and R are right. R does not (d) Both A and R are
explains A. wrong explains A. wrong
148) Assertion (A): Cervix is common site of ectopic pregnancies
Reason (R): Implantation of fertilized ovum outside uterus
(a) A is wrong, R (b) A is right, R is (c) A and R are right. R does not (d) Both A and R are is right. wrong explains A. wrong.
C 1

149) Which of the followi (i) Cowper's gland (ii) Seminal vesicles (iii) Prostate gland (iv) Bulbourethral gland		seminal plasma?					
	(b) i, ii, and iii	(c) i, iii and iv	(d) all the	above			
150) Organ of copulation		( ) 17 '	. (1) II				
(a) Cevix (151) Identify the gland when the gland w	b) Fundus hich is homologous to	(c) Vagina the Cowner's glands	(d) Uter	rus			
(a) Bartholin's gland	_	1 0		kene's gland			
152) Find out the proper s							
(a) Vagina → Ovary → Uterus → Cervix	( )	y (c) Ovary → Infundibulum	(d) Ovi	iduct → → Uterus→			
$\rightarrow$ Infundibulum $\rightarrow$	Infundibulum →	Oviduct → Uter	•				
Oviduct	Cervix $\rightarrow$ Uterus	Cervix → Vagin	_	→ Cervix			
153) An adult male produ (a) 200 million	ces an average of (b) 300 million	(c) 300 million	perms per day (d) 120	million			
154) Statement (1): Durin	<b>*</b> /	( )	` /				
tubule.	g sperimenton, the spe	Tins are released line	, the cavity of s				
Statement (2): During				60+			
(a) Statement 1 is correct; statement 2 is	(b) Statement 1 is	(c) Both the t 2 is statements 1 a	(d) Bo	th the ents 1 and 2 are			
incorrect	correct	are correct.	incorre				
155) Statement (1): Siame	ese twins are conjoined	d twins who are join	ed during birth.				
Statement (2): Dizygot			(1) D	4.4.			
(a) Statement 1 is correct; statement 2 is	(b) Statement 1 is incorrect: statemen	(c) Both the t 2 is statements 1 a	(d) Bo	ents 1 and 2 are			
incorrect.	correct.	are correct.	incorre				
156) Statement (1): The en			and secreting p	progesterone			
Statement (2): Progesto (a) Statement 1 is	erone maintains pregn (b) Statement 1 is	ancy (c) Both the	(d) Bo	th the			
correct; statement 2 is		t 2-is statements 1 a		ents 1 and 2 are	<b>&gt;</b>		
incorrect	correct	are correct.	incorre				
157) Statement (1): Huma			2.1 1				
Statement (2): During (a) Statement 1 is	(b) Statement 1 is		2th week (d) Bo	oth the			
correct; statement 2 is							
incorrect	correct	are correct	correc	t			
158) Statement (1): Mensi Statement (2): The ave	A Y						
(a) Statement 1 is	(b) Statement 1 is	(c) Both the	(d) Bot	th the			
correct; statement 2 is	incorrect; statemen	t 2 is statements 1 a		ents 1 and 2 are			
incorrect 159) Identify the mismatc	correct	are correct	incorre	ct.			
(a) Castration(b) Spen		of (c) Ovulation -	(d) Capacita	tion - Process			
- sperms i	nto the cavity of	Release of egg	enabling the	sperm to			
Orchidectomyseminife		from ovary	penetrate the	eg			
160) Identify the given fig	gure and select the cor	rect option represent	ing X, Y and Z				
( X							
25-r							
68							
69							
10							
(a)	(b)	, les	(c)	u les	(d)	,	
X Y Z Nucleus Acrosome Mit	ochondria Acrosome N			Y Z Acrosome Nucleus	X Y		
161) The entire process of			days	111 obolilog tuoleus	, acreas		onondi

(a) 60 days	. ,	44 days		(c) 64 days	.1		50 days					
162) Observe the d	agram and s	select the	correct (	option denoting	g the pr	oper seq	uence of par	ts.				
-		3										
All Control												
	W/-c	- A										
1	MIL.											
	100											
(a)			(b)				(c)				(d)	
A B	C	D	A	В	C	D	A	В	C	D	A	В
Isthmus Fimbria	e Infundibul	umUterus	Fimbria	ne Infundibulun	Uteru	sIsthmus	Infundibulu	ımUter	us Isthmu	ısFimbri	iae Fimbria	eInfun
163) Pick out the ir												
(a) The upper re				(c) Cervix is			igina extend					
portion of ute iu			n narrow	organ of copu	ılatıon			ns to				
fundus 164) What is the ro	cervi			female.		exterio	)r					
(a) Secretion of			e collect	ion of (c) Atta	ches th	e ovarv 1	o (d) Corme	ects				
oestrogen and	\ /	um after o					oviduct wi					
prolactin.						•	ovary					
165) Which is not a	a correct stat	ement reg	arding (	Dogenesis?								
(i) During foetal	-	nt, cells in	germin	al epithelium o	of foeta	ıl ovary u	ındergo mito	sis and				
produce oogonia												
(ii) Oogonial ce					I and i	from prir	nary oocytes	S.				
(iii)Primary ooc (iv) No oogonia	•	-										
(a) Only i	(b) ii and		(c) iv o		None	of the al	ove					
166) In embryo dev			` /	•				ert into				
morula?	, cropinion o		-11182, 11	ow rong cook		101 4 2) 8	,010 10 0011 1					
(a) 24hrs	(b) 3	36hrs		(c) 48hrs		(d) 7	2 hrs					
167) Identify the ho		-		•	-							
(a) Relaxin	(b) Ox	•		c) Progesteron	e	(0	l) Cortisol					
168) The type of ar			lostrum.			(4)	In D					
(a) Ig E 169) Select the pro-	(b) I		ition of	(c) Ig A	tive ni		Ig B					
(a) FSH and Pro		(b) prola			SH &		(d) FSH &	LH				
170) In ZIFT techn				* *								
(a) 16 blastome				12 blastomer	e	(d) 8	blastomere					
171) The family pla			s initiate									
(a) 1953	(b)	•		(c) 1963		` '	1951					
172) In the year	ındıa	is expect	ed to be	come the large	st coun	itry in po	pulation size	е				
(a) 2021	(b)	2025		(c) 2022		(d)	2030					
173) Sperm remain			ırs in the		luctive		2030					
(a) 60	(b)			(c) 72		(d)	78					
174) Saheli is an ex		metł										
(a) Mechanical					l barrie	r (d) In	tra uterine d	evices				
175) Formation of							(1) A ID	a				
(a) Genital herp		(b) Sy	-	(c) Gon	orrhoe	a	(d) AID	S				
(a) Genital war		b) AIDS		ptoms of Chlamydiasis	_	(d) I	Hepatitis-B					
177) The incubatio	`			•		(d) 1	пераппа Б					
(a) HPV	(b) H			) HBV		d) candi	da					
178) The incubatio	n period for	car	ı be moi	re than 10 year	s.	. /						
(a) HPV	(b) HB	V		Treponema			(d) HIV					
179) PAP smear ca	-											
(a) Jaundice		Cancer	10	(c) AIDS		d) Hepat	itis B					
(a) HIV	on of girls the (b) Hl		•	rs can prevent of (c) MMR	cervica		HBV					
(a) HIV 181) Mayer - Rokit	` '			` /		(u)	11D 4					
(a) Ova are not		varies are		c) Uterus is no	ot	(d) F	allopian tube	e is				
produced	forme			functioning		ruptui	-					
182) Test tube baby		techi	nique.									
(a) IUI	(b) CV	/S		(c) ICSI		(d)	IVF					

(a) When eggs are (b) Sperm (c) More embryos are available (d) there is abnormality not available count is less than the required in the embryo
184) One sperm directly injected into cytoplasm of the egg in technique.
(a) ICSI (b) GIFT (c) IUT (d) TCSE  185) involves taking a sample of placental tissues to test for chromosomal abnormalities
(a) CVS (b) ICSI (c) TESE (d) IVF
is needed for normal functioning of reproductive structures
(a) Vitamin A (b) Vitamin E (c) Vitamin B (d) Vitamin C  187) is observed as world population day
(a) 11th June (b) 11th April (c) 11th July (d) 11th May
188) International diseases refer to
(a) Syphilis and (b) AIDS and (c) AIDS and Hepatitis(d) Syphilis and AIDS Gonorrhoea B Gonorrhoea
189) Most of the intrauterine transfer of embryo is done at stage
(a) 8 celled (b) 16 celled (c) 32 celled (d) 4 celled 190) is an epidemic disease.
(a) HPV (b) HIV (c) Cervical cancer (d) Jaundice
191) In India, Family Planning Programme was introduced in
(a) 1941 (b) 1951 (c) 1961 (d) 1971 192) Expansion of the RCH is
(a) (b) (c) (d)
Reproduction and Children Reproductive arid Child's Health Committee Reproduction Reproductive
Health Programme  and Critical and Child  Health Care Health Care
193) One of the following prevents sperm from heading off to penis as the discharge has no
sperms in it.
(a) Tubectomy (b) LNG - 20 (c) Vasectomy (d) Cu T 380 Ag 194) This is not Major task of RCH.
(a) Vaccinating the (b) Introducing (c) Educating couples (d) Creating awareness
mother and child for six education in about the available with about care for pregnant
infectious diseases Schools control Women  195) All the following aims at creating a safe and secure environment for both females and males.
Except
(a) Sexual Harassment at (b) POCSO(c) Recommendation of Iustice (d)
work place Act Verma Committee, 2013 PCPNDT
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207) Flevelluoli ol ci	hildren from sexual offences is covered under act
	(b) patent act (c) ART (d) POCSO
` '	agnosed by PAP smear test.
	er (b) Bone cancer (c) Blood cancer (d) Intestinal cancer
	atal technique to detect chromosomal abnormalities in the foetus
	PSA test (Prostate Specific (c) PAP (d) PT test (Prothrombin
Amniocentesis A	ntigens Test) test Time Test)
	overpopulation can be overcome by
	ogram (b) free education (c) Birth control (d) meals scheme
	s and jellies are barriers for birth control.
	(b) Chemical (c) hormonal (d) natural
	ive pills contain synthetic and hormones
	(b) Androgen and (c) relaxin and (d) Progesterone and
testosterone	Oxytocin inhibin estrogen
	mple of a contraceptive pill.
	(b) Ortho Tri-cyclen (c) Saheli (d) Eryosterol
* *	of the sperm within the uterus.
(a) Endocytosis	(b) Pinocytosis (c) Phagocytosis (d) Exocytosis
	thod of contraception has a success rate of 95 - 99% in India.
	erine devices (b) Hormonal (c) Chemical (d) mechanical
	are transmitted sexually and by sharing of needless
	(b) genital herpes (c) AIDS/Hepatitis - B (d) candidiasis
	ally transmitted diseases caused by protozoan
(a) Trichomonias	is (b) Genital warts (c) Syphilis (d) Candidiasis
215) is a sevin	-114
(a) Chlamvdiasis	(b) Candidiasis (c) Genital herps (d) Syphilis
	e of infertility in women.
(a) Is a cause	Findometriosis/Uterine (c) well developed (d) hormonal
varicocoele fib	e of infertility in women. Endometriosis/Uterine (c) well developed (d) hormonal roids ovaries balance
217) is a proceed	dure to treat infertile man with low sperm count
	(b) In vitro (c) Intra-uterine (d) Zygote intra-fallopian
insemination	fertilization transfer transfer
	thod for preservation of embryos
(a) Mechanical	(b) Chemical (c) (d) Heat
preservation	(b) Chemical (c) (d) Heat preservation Cryopreservation preservation
219) is a condition in	which there is absence of spermatozoa in the ejaculate serum
	mia (b) Asthenozoospermia (c) Oligozoospermia (d) Azoospermia
` '	voided on the 14th day of the menstrual cycle to prevent fertilization, because
	e on that day.
	Ovulation (c) Sperms are more active (d) Uterus is ready for implantation
	and used to detect foetal diseases during early pregnancy
(a) CT scanning	
(a) CT scanning	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning
222) Usage of	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI.
222) Usage of (a) IUDS (	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI. b) Latex Condoms (c) Saheli (d) Lippes loop
222) Usage of (a) IUDS (223) Which of the fo	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI. b) Latex Condoms (c) Saheli (d) Lippes loop llowing is a hormone releasing Intrauterine Device (IUD)?
222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI. b) Latex Condoms (c) Saheli (d) Lippes loop llowing is a hormone releasing Intrauterine Device (IUD)? 5 (b) LNG - 20 (c) Cervical cap (d) Vault
222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37 224) Assisted reprod	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI. b) Latex Condoms (c) Saheli (d) Lippes loop llowing is a hormone releasing Intrauterine Device (IUD)?  (b) LNG - 20 (c) Cervical cap (d) Vault uctive technology, IVF involves the transfer of
222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37 224) Assisted reprod (a) Ovum into the	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI.  b) Latex Condoms (c) Saheli (d) Lippes loop llowing is a hormone releasing Intrauterine Device (IUD)?  5 (b) LNG - 20 (c) Cervical cap (d) Vault uctive technology, IVF involves the transfer of e (b) Zygote into the (c) Zygote into (d) Embryo with 16 blastomeres
222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37 224) Assisted reprod (a) Ovum into the fallopian tube	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI. b) Latex Condoms (c) Saheli (d) Lippes loop sellowing is a hormone releasing Intrauterine Device (IUD)?  5 (b) LNG - 20 (c) Cervical cap (d) Vault suctive technology, IVF involves the transfer of see (b) Zygote into the (c) Zygote into (d) Embryo with 16 blastomeres falloptan tube the uterus into the fallopian tube
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222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37 224) Assisted reprod (a) Ovum into the fallopian tube 225) In context of an (a) It is usually defined the second of the s	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI.  b) Latex Condoms (c) Saheli (d) Lippes loop (llowing is a hormone releasing Intrauterine Device (IUD)?  5 (b) LNG - 20 (c) Cervical cap (d) Vault (uctive technology, IVF involves the transfer of (e) Export into the (c) Export into the (d) Embryo with 16 blastomeres falloptan tube (e) Export into the fallopian tube (finiocentesis, which of the following statements is incorrect?  6 one when a (b) It is used for (c) It can be used for (d) It can be used
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222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37 224) Assisted reprod (a) Ovum into the fallopian tube 225) In context of an (a) It is usually de woman is between pregnant	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI.  b) Latex Condoms (c) Saheli (d) Lippes loop sellowing is a hormone releasing Intrauterine Device (IUD)?  5 (b) LNG - 20 (c) Cervical cap (d) Vault suctive technology, IVF involves the transfer of see (b) Zygote into the (c) Zygote into (d) Embryo with 16 blastomeres falloptan tube the uterus into the fallopian tube semiocentesis, which of the following statements is incorrect?  one when a (b) It is used for (c) It can be used for (d) It can be used the interval of the following statements is incorrect?  One when a (b) It is used for (c) It can be used for (d) It can be used the interval of the following statements is incorrect?  One when a (b) It is used for (c) It can be used for (d) It can be used the interval of the following statements is incorrect?  One when a (b) It is used for (c) It can be used for (d) It can be used the interval of the following statements is incorrect?  One when a (b) It is used for (c) It can be used for (d) It can be used the interval of the following statements is incorrect?  One when a (b) It is used for (c) It can be used for (d) It can be used the interval of the following statements is incorrect?  One when a (b) It is used for (c) It can be used for (d) It can be used the interval of the following statements is incorrect?
222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37 224) Assisted reprod (a) Ovum into the fallopian tube 225) In context of an (a) It is usually device the pregnant 226) Which of the fo	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI. b) Latex Condoms (c) Saheli (d) Lippes loop (llowing is a hormone releasing Intrauterine Device (IUD)? 5 (b) LNG - 20 (c) Cervical cap (d) Vault uctive technology, IVF involves the transfer of (e) (b) Zygote into the (c) Zygote into (d) Embryo with 16 blastomeres falloptan tube (e) The the uterus (e) Embryo with 16 blastomeres (falloptan tube (for the following statements is incorrect? (for when a (b) It is used for (c) It can be used for (d) It can be used in 14-16 weeksprenatal sex (for the following statements) (for detection of the following approach does not give the defined action of contraceptive?
222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37 224) Assisted reprod (a) Ovum into the fallopian tube 225) In context of an (a) It is usually device woman is between pregnant 226) Which of the fo (a)	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI. b) Latex Condoms (c) Saheli (d) Lippes loop (llowing is a hormone releasing Intrauterine Device (IUD)? 5 (b) LNG - 20 (c) Cervical cap (d) Vault uctive technology, IVF involves the transfer of (e) (b) Zygote into the (c) Zygote into (d) Embryo with 16 blastomeres falloptan tube (e) The the uterus (e) Embryo with 16 blastomeres into the fallopian tube (for into the following statements is incorrect? 6 one when a (b) It is used for (c) It can be used for (d) It can be used in 14-16 weeksprenatal sex (detection of Down for detection of determination syndrome (Cleft palate following approach does not give the defined action of contraceptive? (b) (c) (d)
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222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37 224) Assisted reprod (a) Ovum into the fallopian tube 225) In context of an (a) It is usually dwoman is between pregnant 226) Which of the fo (a)  a) Prevent Barrier Fertilizers	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI.  b) Latex Condoms (c) Saheli (d) Lippes loop solutions is a hormone releasing Intrauterine Device (IUD)?  5 (b) LNG - 20 (c) Cervical cap (d) Vault suctive technology, IVF involves the transfer of se (b) Zygote into the (c) Zygote into (d) Embryo with 16 blastomeres falloptan tube the uterus into the fallopian tube shows the uterus shows t
222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37 224) Assisted reprod (a) Ovum into the fallopian tube 225) In context of an (a) It is usually device woman is between pregnant 226) Which of the fo (a)  a)  Prevent	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI.  (c) Saheli (d) Lippes loop (IUD)?  (d) Vault (IUD)?  (e) Cervical cap (d) Vault (IUD)?  (f) Embryo with 16 blastomeres (g) Em
222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37 224) Assisted reprod (a) Ovum into the fallopian tube 225) In context of an (a) It is usually dwoman is between pregnant 226) Which of the fo (a)  a) Prevent Barrier Fertilizers	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI.  b) Latex Condoms (c) Saheli (d) Lippes loop  Illowing is a hormone releasing Intrauterine Device (IUD)?  5 (b) LNG - 20 (c) Cervical cap (d) Vault uctive technology, IVF involves the transfer of  e (b) Zygote into the (c) Zygote into (d) Embryo with 16 blastomeres falloptan tube the uterus into the fallopian tube miocentesis, which of the following statements is incorrect?  one when a (b) It is used for (c) It can be used for (d) It can be used in 14-16 weeksprenatal sex detection of Down for detection of determination syndrome Cleft palate  Illowing approach does not give the defined action of contraceptive?  (b) (c) (d)  Prevent retard entry of sperms, prevent  b) Intrasuppresses  c) Hormonal contraceptives
222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37 224) Assisted reprod (a) Ovum into the fallopian tube 225) In context of an (a) It is usually device woman is between pregnant 226) Which of the fo (a)  a) Barrier Prevent fertilizers	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI.  b) Latex Condoms (c) Saheli (d) Lippes loop  Illowing is a hormone releasing Intrauterine Device (IUD)?  5 (b) LNG - 20 (c) Cervical cap (d) Vault uctive technology, IVF involves the transfer of e (b) Zygote into the (c) Zygote into (d) Embryo with16 blastomeres falloptan tube the uterus into the fallopian tube mniocentesis, which of the following statements is incorrect?  one when a (b) It is used for (c) It can be used for (d) It can be used the fallowing approach does not give the defined action of contraceptive?  (b) (c) (d)  Increases phagocytosis of sperms  b) Intrasuppresses uterine sperm  (c) Hormonal contraceptives  (d) Prevent retard entry of sperms, prevent ovulation
222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37 224) Assisted reprod (a) Ovum into the fallopian tube 225) In context of an (a) It is usually dwoman is between pregnant 226) Which of the fo (a)  a) Prevent Barrier fertilizers	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI.  b) Latex Condoms (c) Saheli (d) Lippes loop  Illowing is a hormone releasing Intrauterine Device (IUD)?  5 (b) LNG - 20 (c) Cervical cap (d) Vault uctive technology, IVF involves the transfer of (e) Export into the (e) Export into the fallopian tube (fallopian tube the uterus into the fallopian tube (fallopian tube the uterus into the fallopian tube (fallopian tube fallopian tube (fallopian tube fallopian tube fallowing statements is incorrect?  The state of the following statements is incorrect?  The state of the following statements is incorrect?  The state of the fallopian tube fallopian tube fallopian tube fallopian tube fallopian tube for (d) It can be used for (d) It can be used for detection of determination syndrome for detection of determination for detection of determination for detection of contraceptive?  The state of the fallopian tube fallopian tube fallopian tube for detection of contraceptive?  The state of the fallopian tube fallopian t
222) Usage of (a) IUDS (223) Which of the fo (a) Multi load 37 224) Assisted reprod (a) Ovum into the fallopian tube 225) In context of an (a) It is usually dwoman is between pregnant 226) Which of the fo (a)  a) Prevent Barrier fertilizers	(b) MRI scanning (c) Ultrasound scanning (d) PET scanning greatly reduces the risk of STI.  b) Latex Condoms (c) Saheli (d) Lippes loop  Illowing is a hormone releasing Intrauterine Device (IUD)?  5 (b) LNG - 20 (c) Cervical cap (d) Vault uctive technology, IVF involves the transfer of e (b) Zygote into the (c) Zygote into (d) Embryo with16 blastomeres falloptan tube the uterus into the fallopian tube mniocentesis, which of the following statements is incorrect?  one when a (b) It is used for (c) It can be used for (d) It can be used the fallowing approach does not give the defined action of contraceptive?  (b) (c) (d)  Increases phagocytosis of sperms  b) Intrasuppresses uterine sperm  (c) Hormonal contraceptives  (d) Prevent retard entry of sperms, prevent ovulation

(a) Rhythm method (b) Lactational amenorrhoea (c) Progestasert (d) Continuous abstinence
228) Identify the fungal STD(s)  (i) Trichomoniasis (ii) Genital herps (iii) Candidiasis (iv) Genital warts
(a) Only(i) (b) Only (iii) (c) Only (iv) (d) Both (ii) and (iv) 229) Pick out the incorrect statement regarding the character of an good contraceptive.
(a) It should be user (b) should not affect (c) side effects must (d) should not be easily friendly sexual drive be least available
230) Assertion (A): IUD's are inserted in the ovary.
Reason (R): IUD's Increases phagocytosis of the sperm.  (a) Both A and R are (b) Both A and R are (c) A is correct R is (d) A is incorrect R is correct incorrect correct
231) Identify the mismatched pair.  (a) Syphilis  (b) Lymphogranuloma  - Treponema  venereum - Chlamydia  - Albugo candida - Human Papilloma  - Albugo candida - Human Papilloma
palladium trachomatis virus 232) Assertion (A): Amniocentesis helps to diagnose the chromosomal aberrations in foetus.
Reason (R): Amniocentesis is legalized is our country.  (a) Both A and R are  (b) A is right and R is  (c) R explains  (d) A is wrong R is
wrong wrong A right 233) Legalized marriageable age of female in India is
(a) 19 years (b) 20 years (c) 18 years (d) 21 years
234) Identify the correct statement.  (a) Lactational  (b) Condoms are made  (c) LNG -20 is  (d) Diaphragm covers the
amenorrhea is a of polyethylene glycol a copper- permanent birth control and lambskin releasing IUD sperm entry method
235) According to WHO, India is the largest HIV affected country.  (a) first (b) second (c) third (d) seventh
236) Identify the correct statement.  (a) MTP is the (b) MTP is legalized (c) Performing MTP during (d) It is a surgical-
voluntary killing of in India from 1974 second trimester is more risky. based abortion.
237) In chorionic villus sampling test, the tissue sample is taken from  (a) amniotic fluid  (b) placental tissue  (c) Intestinal villi  (d) foetal liver
(a) ammour find (b) placemai ussue (c) miesunai viii (d) loelai uver
238) Given below are the basic steps in IVF treatment cycle. Select the proper sequence.
238) Given below are the basic steps in IVF treatment cycle. Select the proper sequence.  (i) Ovarian stimulation (ii)Egg retrieval (iii) fertilization (iv) Embryo, culture (v) Embryo
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201)
281) Kin selection is seen in
(a) Honey bees (b) Drosophila (c) Grasshopper (d) Cockroach
282) The fruit fly Drosophila melanogaster was found to be very suitable for experimental
verification of chromosomal theory of inheritance by Morgan and his colleagues because
(a) It reproduces (b) A single mating (c) Smaller female is easily (d) It completes the life
parthenogeneticallyproduces two young recognizable from cycle in about'two
flies largemale weeks
283) Which one of the following cannot be explained on the basis of Menders Law of Dominance?
(a) The discrete unit (b) Out of one pair (c) Alleles do not show any (d)
controlling a particular factors one is dominant blending and both the characters Factors
character is called a factorand the other recessive recover as such in F2 generation occur in
· ·
pairs
284) ABO blood groups in humans are. controlled by the gene I, It has three alleles - IA, IB and i.
Since there are three different alleles) six different genotypes are possible. How many
phenotypes can occur?
(a) Three (b) One (c) Four (d) Two
285) Which one of the following symbols and its representation, used in human pedigree analysis
is correct?
(a) $\square = O$ Mating between (b) $O = U$ naffected (c) $\square = U$ naffected (d) $\lozenge = M$ ale
relatives male female affected
286) Which one of the following conditions correctly describes the manner of determining the sex
in the given example?
(a) XO type of sex (b) XO condition in (c) Homozygous sex (d) Homozygous sex
chromosomes humans as found in Turnerchromosomes (XX) chromosomes (ZZ)
determine male sex in syndrome, determines produce male in determine female sex
grasshopper female sex Drosophila in birds
287) A normal-visioned man whose father was blind marries a woman whose father was also
colour blind. They have their first child as a daughter. What are the chances that this child
would be colour blind?
(a) 100% (b) 0% (c) 25% (d) 50%
288) Which of the following statements is not true of two genes that show 50 per cent
recombination frequency
(a) The genes may be on (b) The genes (c) The genes show (d) If the genes are present
different chromosomes are tightly linkedindependent assortment on the same chromosome
289) A pleiotropic gene:
(a) Is a gene (b) Controls a trait only in (c) Controls multiple (d) Is expressed only
evolved during combination with another traits in an individual in primitive plants
Pliocene gene
290) A gene showing codominance has:
(a) Alleles tightly (b) Alleles that are (c) Both alleles (d) One allele
(a) Alleles tightly (b) Alleles that are (c) Both alleles (d) One allele linked on the same recessive to each independently expressed in dominant on the
(a) Alleles tightly (b) Alleles that are (c) Both alleles (d) One allele dominant on the chromosome.  (d) One allele dominant on the other  (d) One allele dominant on the other
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chromosome (XX) chromosome (ZZ) chromosome (XO)	chromosome (ZW)
produce males in determine female sex determine male sex in Drosophila in birds grasshopper	determine male sex in
Drosophila in birds grasshopper 298) Which blood group doesn't possess antibodies?	gypsy moth
(a) $I^{A}I^{B}$ (b) $I^{O}I^{O}$ (c) $I^{AO}$	(d) $I^BI^B$
299) Assertion (A): On diagnosis, Ramu is reported to have underdevelogynaecomastia.	oped testis and
Reason (R): His karyotype reveals XXY condition	
(a) A is right but R(b) R (c) Both A and R (d) Both and R are	
is wrong explains A are wrong correct explanation 300) Pick out the odd man out.	n or A
(a) Klinefelter's syndrome (b) Turner's syndrome (c) Huntington's	s chorea (d) 13-Trisomy
301) Pick out the odd one out regarding Mendelian disorder.	s choica (d) 13-11isoiny
The second secon	Huntington's chorea
302) Identify the proper ratio of normal visioned individuals against cold	
colorblind carrier female marries a normal male.	Stelling markingship, in
(a) 1:1 (b) 3:1 (c) 1:3 (d) All four are normal visit	ioned
303) Pick out the correct statement	
(i) Karyotyping helps in gender identification	
(ii) Holandric genes are located on X-chromosome	
(iii) Trisomy-21 is an allosomal abnormality	
(iv) Cooley's anaemia is an autosomal recessive disorder	
(a) i, iii, iv are correct (b) ii and iii are correct (c) i and iv are cor	rect (d) iv only correct
304) DOPA stands for	
(a) 3,4 - dihydroxy phenyl acetate phenyl alanine phenyl asparate	(d) 3,4 - dihydroxy phenyl aldehyde
305) The type of antibody generated against Rh antigen is	
(a) IgE (b) IgG (c) A	(d) IgB
306) Which of the following symbol is used in pedigree analysis to repre	esent unspecified sex?
(a) (b) (c)	(d)
307) A colorblind man. marries a woman with normal sight who has no	history of color blindness
in her family. What is the probability of their grandson being colorbli	
(a) 1/4 (b) 3/4 (c) 2/4	(d) 4/4
308) Multiple alleles are located	
	ci on non- (d) at different
	mosome chromosomes
chromosome	
309) Identify the incorrect statement regarding haplodiploidy	
(a) Haplodiploidy is (b) Unfertilized (c) Fertilized eggs	(d) Males have half the
noticed in honeybees and eggs develop into develop into queen and	
drosophila drones worker bees	number
310) I <sup>A</sup> and I <sup>B</sup> genes of ABO blood group are  (a) Co-dominant (b) Pleotropic (c) Dominant and recessive	e (d) Epistatic
(a) Co-dominant (b) Pleotropic (c) Dominant and recessive 311) Which one of the following crosses show 3: 1 ratio of normal visio	
(a) $X^{C}X^{C}x X+Y$ (b) $X+X^{C}x X^{C}Y$ (c) $X+X^{C}x X+Y$ -	(d) X+X+ x X <sup>c</sup> Y-
SUBSCRIBE AND PRESS BELL BUTTON FOR DAILY NOTIFI	ICATION
DODGERIDE IN DITREM DELL DULI ON FOR DAIL! NOTH	

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## RAVI MATHS TUITION CENTER, NEAR VILLIVAKKAM RLY STATION, CHENNAI – 82. WHATSAPP - 8056206308

#### MCQ ZOO CREATIVE 5-8

12th Standard

Biology

 $286 \times 1 = 286$ 

/ \ <b></b>	coined by	/ \ = •	/ D = 1	
(a) Mendel	•	(c) Johannsen	(d) Hershey	
2) The classical conce (a) Mendel			(d) Hofmeister	
` '	` '	` /	nd Tatum based on	
			(d) Neurospora	
4) Chromosomes were	· •		1	
(a) Miescher		(c) A	very (d) Griffith	
5) The term nucleic ac	` '			
(a) Miescher	(b) Hofmeister	(c) Alt	man (d) Mcleod	
6) Griffith's experimen			NIA '- d - (1) DNIA '-	
	ed in (b) Bacteria u		NA is the (d) DNA is material two strands	ide of
• •	asexual reprod	_	ic material two strands	
7) The experiment cor (a) Transduction	(b) Replication		ation (d) Conjucation	
8) Human Genome wa	as sequenced in			
(a) 1979	(b) 2015	(c) 1989	(d) 2001	
9) used	radioactive labelled r	nolecules to prove t	hat DNA is the genetic materia	al.
(a) Hershey and Ch	nase (b) Wilkins a	nd Franklin (c)	Griffith (d) Mcleod and Aver	ry
10) One difference bet	ween deoxyribose an	d Ribose is due to_		
(a) One Oxygen at	om (b) Two Oxygen	atoms (c) Two $\overline{C}$	arbon (d) Four Carbon a	itoms
more in Ribose	less in Deoxyribo	se atoms less	in Ribose more in Ribose	
11)is unique	for DNA.			
(a) Adenine	(b) Uracil	(c) Guanine	(d) Thymine	
12)demonstra	ated that RNA is the g	genetic material in R	NA containing viruses.	
(a) Avery (b) (	Conrat and Singer	(c) Griffith	(d) Watson and Crick	
13) The concept of RN	IA world was indeper	idently proposed by		
(a) Orgel, Brick an	d Carl (b) Brick,	Griffith and (c)	Wilkins and (d) Walter	
woese	Crick	Enon	1-11.	
***************************************	CHEK	Fran	ıklin Gilbert	
14) The distance between			5	
14) The distance between	een two consecutive l (b) 0.34 nm	pase pairs in DNA is (c) 34.0nm	5	
14) The distance betwee (a) 3.4 nm	een two consecutive by 0.34 nm refers to DNA consecutive by the consec	pase pairs in DNA is (c) 34.0nm	5	
14) The distance betwee (a) 3.4 nm 15) The term (a) Nuclein	een two consecutive by 0.34 nm refers to DNA consecutive by Ribozyme	oase pairs in DNA is  (c) 34.0nm of Prokaryotes.  (c) Genophore	(d) 31x10 <sup>-9</sup>	
14) The distance betwee (a) 3.4 nm 15) The term (a) Nuclein 16) propos	een two consecutive by 0.34 nm refers to DNA consecutive by Ribozyme	oase pairs in DNA is  (c) 34.0nm of Prokaryotes.  (c) Genophore	(d) 31x10 <sup>-9</sup> (d) Nucleosome	
14) The distance betwee  (a) 3.4 nm  15) The term  (a) Nuclein  16) propose	cen two consecutive by 0.34 nm refers to DNA of (b) Ribozyme ed a model for the number (b) Messelson	(c) 34.0nm of Prokaryotes. (c) Genophore acleosome.	(d) 31x10 <sup>-9</sup> (d) Nucleosome	
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14) The distance betwee  (a) 3.4 nm  15) The term  (a) Nuclein  16) propose  (a) Dupraw  17) A nucleosome has  (a) 6  18) Messelson and Stat  (a) proved that  RNA is the genetic material  19) Replication errors  (a) Polymerases  20) The Okazaki segm  (a) DNA polymera  21) The enzyme polyn  (a) Francis crick  22) The "non-sense' condered the service of the s	cen two consecutive by (b) 0.34 nm refers to DNA of (b) Ribozyme red a model for the number of the n	coase pairs in DNA is  (c) 34.0nm of Prokaryotes. (c) Genophore acleosome. (c) Kornbe forotein molecules. (c) 10  ein (c) proved the ent onconservative in replication. ir enzymes such a  azyme (c)  ymerase (c) DN ase is named after oa (c) Marsha	(d) 31x10 <sup>-9</sup> (d) Nucleosome  (d) Griffith  (d) 24  (esemi (d) discovered in a continuous involve replication  (d) Nucleases  (d) Nucleases  (d) Nucleases  (d) Endonuclease	e
14) The distance betwee  (a) 3.4 nm  15) The term  (a) Nuclein  16) propose  (a) Dupraw  17) A nucleosome has  (a) 6  18) Messelson and Stat  (a) proved that  RNA is the genetic material  19) Replication errors  (a) Polymerases  20) The Okazaki segm  (a) DNA polymera  21) The enzyme polyn  (a) Francis crick  22) The "non-sense' co  (a) UAA UUU UG  23) DNA finger printing	een two consecutive by (b) 0.34 nm refers to DNA (c) Ribozyme ed a model for the number of the numbe	coase pairs in DNA is  (c) 34.0nm of Prokaryotes. (c) Genophore acleosome. (c) Kornbe forotein molecules. (c) 10  ein (c) proved the ent onconservative in replication. ir enzymes such a _ ir enzyme (c)  gymerase (c) DN ase is named after _ oa (c) Marsha  UAC (c) UAG UC	(d) 31x10 <sup>-9</sup> (d) Nucleosome  (d) Griffith  (d) 24  e semi (d) discovered node of DNA enzymes involve replication  (d) Nucleases  (d) Nucleases  (d) Nucleases  (d) Endonuclease  (d) Kornby	e
14) The distance betwee  (a) 3.4 nm  15) The term  (a) Nuclein  16) propose  (a) Dupraw  17) A nucleosome has  (a) 6  18) Messelson and Sta  (a) proved that  RNA is the genetic material  19) Replication errors  (a) Polymerases  20) The Okazaki segm  (a) DNA polymera  21) The enzyme polyn  (a) Francis crick  22) The "non-sense' co  (a) UAA UUU UG	een two consecutive by (b) 0.34 nm refers to DNA (c) Ribozyme ed a model for the number of the numbe	coase pairs in DNA is  (c) 34.0nm of Prokaryotes. (c) Genophore acleosome. (c) Kornbe protein molecules. (c) 10  ein (c) proved the control on conservative in replication. ir enzymes such a replication. ir enzyme (c)  ymerase (c) DN ase is named after ba (c) Marsha  UAC (c) UAG UC eloped by	(d) 31x10 <sup>-9</sup> (d) Nucleosome  (d) Griffith  (d) 24  e semi (d) discovered node of DNA enzymes involve replication  (d) Nucleases  (d) Nucleases  (d) Nucleases  (d) Endonuclease  (d) Kornby	e
14) The distance betwee  (a) 3.4 nm  15) The term (a) Nuclein  16) propose (a) Dupraw  17) A nucleosome has (a) 6  18) Messelson and State (a) proved thate RNA is the genetic material  19) Replication errors (a) Polymerases  20) The Okazaki segmenticy (a) DNA polymera  21) The enzyme polymera  21) The enzyme polymera  22) The "non-sense" contained in the contai	cen two consecutive by 0.34 nm refers to DNA of (b) Ribozyme and a model for the number of (b) Messelson histone particles (b) 8 hl (b) proved that protest synthesis is dependently by 100 kg (b) Kornberg entents are joined by 100 kg (c) Severo Ochoodons refer to (c) A (b) UUU ACU in the particles (c) Alex Jeff (c) 100 kg (c) 100	coase pairs in DNA is  (c) 34.0nm of Prokaryotes. (c) Genophore acleosome. (c) Kornbe brotein molecules. (c) 10  ein (c) proved the control of the control o	(d) 31x10 <sup>-9</sup> (d) Nucleosome  (d) Griffith  (d) 24  (esemi (d) discovered node of DNA enzymes involve replication  (d) Nucleases  (d) Nucleases  (d) Nucleases  (d) Endonuclease  (d) Kornby  (d) Kornby  (d) GA UAA (d) UAG UAA UU	e
14) The distance betwee  (a) 3.4 nm  15) The term  (a) Nuclein  16) propose  (a) Dupraw  17) A nucleosome has  (a) 6  18) Messelson and Stat  (a) proved that  RNA is the genetic material  19) Replication errors  (a) Polymerases  20) The Okazaki segm  (a) DNA polymera  21) The enzyme polyn  (a) Francis crick  22) The "non-sense' co  (a) UAA UUU UG  23) DNA finger printing	cen two consecutive by 0.34 nm refers to DNA of (b) Ribozyme and a model for the number of (b) Messelson histone particles (b) 8 hl (b) proved that protest synthesis is dependently by 100 kg (b) Kornberg entents are joined by 100 kg (c) Severo Ochoodons refer to (c) A (b) UUU ACU in the particles (c) Alex Jeff (c) 100 kg (c) 100	coase pairs in DNA is  (c) 34.0nm of Prokaryotes. (c) Genophore acleosome. (c) Kornbe brotein molecules. (c) 10  ein (c) proved the control of the control o	(d) 31x10 <sup>-9</sup> (d) Nucleosome  (d) Griffith  (d) 24  (esemi (d) discovered node of DNA enzymes involve replication  (d) Nucleases  (d) Nucleases  (d) Nucleases  (d) Endonuclease  (d) Kornby  (d) Kornby  (d) GA UAA (d) UAG UAA UU	e
14) The distance betwee  (a) 3.4 nm  15) The term  (a) Nuclein  16) propose  (a) Dupraw  17) A nucleosome has  (a) 6  18) Messelson and Stat  (a) proved that  RNA is the genetic material  19) Replication errors  (a) Polymerases  20) The Okazaki segm  (a) DNA polymera  21) The enzyme polyn  (a) Francis crick  22) The "non-sense' co  (a) UAA UUU UG  23) DNA finger printing  (a) Frederick Sang  24) In genetic code the  (a) 62	cen two consecutive by (b) 0.34 nm refers to DNA of (b) Ribozyme red a model for the number of the n	c) description of Prokaryotes.  (c) Genophore of Prokaryotes.  (c) Genophore of Releosome.  (c) Kornbe of Releosome.  (d) Kornbe of Releosome.  (e) Kornbe of Releosome.  (f) Hornbe of Releosome.  (g) Hersh of Releosome.  (h) Free of Releosome.  (	(d) 31x10 <sup>-9</sup> (d) Nucleosome  (d) Griffith  (d) 24  e semi (d) discovered node of DNA enzymes involve replication  (d) Nucleases  (d) Nucleases  (d) Nucleases  (d) Endonuclease  (d) Endonuclease  (d) Kornby  (d) Kornby  (ey (d) Rosalind Franklin	e
14) The distance betwee  (a) 3.4 nm  15) The term  (a) Nuclein  16) propose  (a) Dupraw  17) A nucleosome has  (a) 6  18) Messelson and Stat  (a) proved that  RNA is the genetic material  19) Replication errors  (a) Polymerases  20) The Okazaki segm  (a) DNA polymera  21) The enzyme polyn  (a) Francis crick  22) The "non-sense' co  (a) UAA UUU UG  23) DNA fmger printin  (a) Frederick Sange  24) In genetic code the	cen two consecutive by (b) 0.34 nm refers to DNA of (b) Ribozyme red a model for the number of the n	c) description of Prokaryotes.  (c) Genophore of Prokaryotes.  (c) Genophore of Releosome.  (c) Kornbe of Releosome.  (d) Kornbe of Releosome.  (e) Kornbe of Releosome.  (f) Hornbe of Releosome.  (g) Hersh of Releosome.  (h) Free of Releosome.  (	(d) 31x10 <sup>-9</sup> (d) Nucleosome  (d) Griffith  (d) 24  e semi (d) discovered node of DNA enzymes involve replication  (d) Nucleases  (d) Nucleases  (d) Nucleases  (d) Endonuclease  (d) Endonuclease  (d) Kornby  (d) Kornby  (ey (d) Rosalind Franklin	e
14) The distance betwee  (a) 3.4 nm  15) The term  (a) Nuclein  16) propose  (a) Dupraw  17) A nucleosome has  (a) 6  18) Messelson and Sta  (a) proved that  RNA is the genetic material  19) Replication errors  (a) Polymerases  20) The Okazaki segm  (a) DNA polymera  21) The enzyme polym  (a) Francis crick  22) The "non-sense' co  (a) UAA UUU UG  23) DNA finger printing  (a) Frederick Sang  24) In genetic code the  (a) 62  25) The codon	cen two consecutive by (b) 0.34 nm refers to DNA (c) Ribozyme ed a model for the number of the numbe	c) 34.0nm of Prokaryotes. (c) Genophore acleosome. (c) Kornbe protein molecules. (c) 10  ein (c) proved the ent onconservative in replication. ir enzymes such a _ zzyme (c)  gmerase (c) DN ase is named after _ oa (c) Marsha  UAC (c) UAG UC eloped by frey (c) Hersh ossible triplets. (c) 68 alanine	(d) 31x10 <sup>-9</sup> (d) Nucleosome  (d) Griffith  (d) 24  (esemi (d) discovered node of DNA enzymes involve replication  (d) Nucleases  (d) Nucleases  (d) Nucleases  (d) Endonuclease  (d) Kornby  (d) Kornby  (d) Kornby  (d) GA UAA UI  (ey (d) Rosalind Franklin  (d) 64	e

(a) Thalassemia (b) Diabetes (c) Turner syndrome (d) sickle cell anaemia
70\ 777 111 1 1 1
28) Wobble hypothesis  (a) proves that many tRNAs (b) proves that the bases (c) helps in (d) proves that one
are. needed to transport in tRNA need not match economic tRNA can carry many
specific amino acids with mRNA usage of tRNA amino acids
29) The term adapter molecule refers to
(a) mRNA (b) DNA (c) rRNA (d) tRNA
30) There are no tRNA, for codons. (a) AUG (b) GUC (c) UAA (d) AGA
31) Human genome is approximately said to have base
(a) $3 \times 10^8$ bp (b) $3.4 \times 10^9$ bp (c) $3.2 \times 10^7$ bp (d) $3 \times 10^9$ bp
32) DNA sequencers were developed by
(a) Frederick Serger (b) Watson (c) Messelson (d) Kornberg
33) In human beings chromosome has one height gene density. (a) 18 (b) 20 (c) 19 (d) 22
(a) 18 (b) 20 (c) 19 (d) 22  34) Chromosome has 231 genes only. (a) X (b) 19 (c) Y (d) 22
(a) X (b) 19 (c) Y (d) 22
33) The association of histone H1 with a nudeosome indicates
(a) Transcription (b) DNA replication (c) The DNA is condensed (d) The DNA double
is occurring is occurring into chromatin fiber helix is exposed
36) Which of the following is not required for any of the techniques of DNA finger printing
available at present? (a) Zinc finger (b) Restriction (c) DNA-DNA (d) polymerase chain
analysis enzymes hybridization reaction
37) Satellite DNA is important because it
(a) codes (b) shows high degree of polymorphism in (c) Does not code for (d) Codes for
for proteins population and also the same degree of protein and is same in enzymes
needs in polymorphism in an individual, which is all members of the needed for cell cycle heritable from parents to children population. DNA
replication.
38) The diagram shows an important concept in the genetic implication of DNA. Fill in the blanks
A.to C.
A B C
$DNA \rightarrow mRNA \rightarrow protein \rightarrow proposed by \underline{\hspace{1cm}}$
DNA → mRNA → protein→ proposed by
DNA → mRNA → protein → proposed by
DNA → mRNA → protein→ proposed by
DNA → mRNA → protein→ proposed by  (a) A - transscription, (b) A -  B-replication, C- James transscription, B- Watson transscription, C-  (c) A - transscription, B (d) A- transscription, B-  - translation, C - Francisextension, C-Rosalind  Frankin
DNA → mRNA → protein→ proposed by
DNA → mRNA → protein→ proposed by
DNA → mRNA → protein→ proposed by
DNA   mRNA   protein   proposed by  (a) A - transcription, (b) A -  B-replication, C- James transcription, B-  translation, C - Francisextension, C-Rosalind  Watson   transcription, C-  Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon,  i. Glucose or galactose may bind with the repressor and inactive it.  ii. In the absence of lactose, the repressor binds with the operator region  iii. The z-gene codes for permease.  iv. This was elucidated by Francois Jacob and Jacques Monod.
DNA   mRNA   protein   proposed by  (a) A - transcription, (b) A -  B-replication, C- James transcription, B-  translation, C - Francisextension, C-Rosalind  Watson transcriptioii, C-  Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon,  i. Glucose or galactose may bind with the repressor and inactive it.  ii. In the absence of lactose, the repressor binds with the operator region  iii. The z-gene codes for permease.  iv. This was elucidated by Francois Jacob and Jacques Monod.  The correct statements are
DNA → mRNA → protein→ proposed by
DNA   mRNA   protein   proposed by  (a) A - transscription, (b) A -  B-replication, C- James transscription, B-  translation, C - Francisextension, C-Rosalind  Watson transscription, C-  Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon,  i. Glucose or galactose may bind with the repressor and inactive it.  ii. In the absence of lactose, the repressor binds with the operator region  iii. The z-gene codes for permease.  iv. This was elucidated by Francois Jacob and Jacques Monod.  The correct statements are  (a) i and ii (b) ii and iii (c) ii and iv (d) i and ii  40) Which one of the following pairs of codons is correctly matched with their function or the
DNA → mRNA → protein→ proposed by  (a) A - transcription, (b) A -  B-replication, C- James transcription, B-  translation, C - Francisextension, C-Rosalind  Watson  transcriptioii, C-  Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon,  i. Glucose or galactose may bind with the repressor and inactive it.  ii. In the absence of lactose, the repressor binds with the operator region  iii. The z-gene codes for permease.  iv. This was elucidated by Francois Jacob and Jacques Monod.  The correct statements are  (a) i and ii  (b) ii and iii  (c) ii and iv  (d) i and ii  40) Which one of the following pairs of codons is correctly matched with their function or the single for the particular amino acid?  (a) GUU, GCU -  (b) UAG, UGA - Stop (c) AUG, ACG -  (d) UUA, UCA -
DNA → mRNA → protein → proposed by  (a) A - transcription, (b) A - (c) A - transcription, B (d) A- transcription, B- B-replication, C- James transcription, B- translation, C - Francisextension, C-Rosalind Watson transcriptioii, C- Crick Frankin  Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon, i. Glucose or galactose may bind with the repressor and inactive it. ii. In the absence of lactose, the repressor binds with the operator region iii. The z-gene codes for permease. iv. This was elucidated by Francois Jacob and Jacques Monod. The correct statements are (a) i and ii (b) ii and iii (c) ii and iv (d) i and ii  40) Which one of the following pairs of codons is correctly matched with their function or the single for the particular amino acid? (a) GUU, GCU - (b) UAG, UGA - Stop (c) AUG, ACG - (d) UUA, UCA - Alanine codon start/methionine Leucine
DNA → mRNA → protein→ proposed by  (a) A - transcription, (b) A -  B-replication, C- James transcription, B- Watson transcriptioii, C- Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon, i. Glucose or galactose may bind with the repressor and inactive it. ii. In the absence of lactose, the repressor binds with the operator region iii. The z-gene codes for permease. iv. This was elucidated by Francois Jacob and Jacques Monod. The correct statements are  (a) i and ii (b) ii and iii (c) ii and iv (d) i and ii  40) Which one of the following pairs of codons is correctly matched with their function or the single for the particular amino acid?  (a) GUU, GCU - (b) UAG, UGA - Stop (c) AUG, ACG - Alanine codon start/methionine Leucine  41) The Okazaki fragments in DNA chain growth
DNA → mRNA → protein → proposed by  (a) A - transcription, (b) A -  B-replication, C- James transcription, B- Watson transcriptioii, C- Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon, i. Glucose or galactose may bind with the repressor and inactive it. ii. In the absence of lactose, the repressor binds with the operator region iii. The z-gene codes for permease. iv. This was elucidated by Francois Jacob and Jacques Monod. The correct statements are (a) i and ii (b) ii and iii (c) ii and iv (d) i and ii  40) Which one of the following pairs of codons is correctly matched with their function or the single for the particular amino acid? (a) GUU, GCU - (b) UAG, UGA - Stop (c) AUG, ACG - Alanine codon start/methionine Leucine  41) The Okazaki fragments in DNA chain growth (a) Result (b) Polymerise in the 3' to (c) Prove semi- (d) Polymerises in the 5' to 3'
DNA → mRNA → protein→ proposed by  (a) A - transcription, (b) A -  B-replication, C- James transcription, B- Watson transcriptioii, C- Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon, i. Glucose or galactose may bind with the repressor and inactive it. ii. In the absence of lactose, the repressor binds with the operator region iii. The z-gene codes for permease. iv. This was elucidated by Francois Jacob and Jacques Monod. The correct statements are  (a) i and ii  (b) ii and iii  (c) ii and iv  (d) i and ii  40) Which one of the following pairs of codons is correctly matched with their function or the single for the particular amino acid?  (a) GUU, GCU - (b) UAG, UGA - Stop (c) AUG, ACG - Alanine codon  start/methionine  Leucine  41) The Okazaki fragments in DNA chain growth (a) Result (b) Polymerise in the 3' to (c) Prove semi- in 5' direction and forms  (c) A - transcription, B (d) A - transcription, B (e) A - tra
DNA → mRNA → protein→ proposed by  (a) A - transcription, (b) A -  B-replication, C- James transcription, B-  Watson transcriptioii, C-  Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon,  i. Glucose or galactose may bind with the repressor and inactive it.  ii. In the absence of lactose, the repressor binds with the operator region  iii. The z-gene codes for permease.  iv. This was elucidated by Francois Jacob and Jacques Monod.  The correct statements are  (a) i and ii (b) ii and iii (c) ii and iv (d) i and ii  40) Which one of the following pairs of codons is correctly matched with their function or the single for the particular amino acid?  (a) GUU, GCU - (b) UAG, UGA - Stop (c) AUG, ACG -  Alanine codon start/methionine Leucine  41) The Okazaki fragments in DNA chain growth  (a) Result (b) Polymerise in the 3' to (c) Prove semi-  (d) Polymerises in the 5' to 3'  transcriptionreplication fork  DNA replication  DNA replication
DNA → mRNA → protein → proposed by  (a) A - transcription, (b) A -  B-replication, C- James transcription, B-  transcriptioii, C-  Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon,  i. Glucose or galactose may bind with the repressor and inactive it.  ii. In the absence of lactose, the repressor binds with the operator region  iii. The z-gene codes for permease.  iv. This was elucidated by Francois Jacob and Jacques Monod.  The correct statements are  (a) i and ii  (b) ii and iii  (c) ii and iv  (d) i and ii  40) Which one of the following pairs of codons is correctly matched with their function or the single for the particular amino acid?  (a) GUU, GCU - (b) UAG, UGA - Stop (c) AUG, ACG -  Alanine codon start/methionine Leucine  41) The Okazaki fragments in DNA chain growth  (a) Result (b) Polymerise in the 3' to (c) Prove semi-  in 5' direction and forms conservative nature of direction and explain 3'to 5'  transcriptionreplication fork DNA replication  DNA replication  42) During translation initiation in prokaryotes, a GTP molecules is needed in  (a) association of 30 s, (b) association of 50s subunit (c) formation (d) binding of 30 s
DNA → mRNA → protein→ proposed by  (a) A - transcription, (b) A - (c) A - transcription, B (d) A- transcription, B- B-replication, C- James transcription, B- Watson transcriptioii, C- Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon, i. Glucose or galactose may bind with the repressor and inactive it. ii. In the absence of lactose, the repressor binds with the operator region iii. The z-gene codes for permease. iv. This was elucidated by Francois Jacob and Jacques Monod. The correct statements are (a) i and ii (b) ii and iii (c) ii and iv (d) i and ii  40) Which one of the following pairs of codons is correctly matched with their function or the single for the particular amino acid? (a) GUU, GCU - (b) UAG, UGA - Stop (c) AUG, ACG - (d) UUA, UCA - Alanine codon start/methionine Leucine  41) The Okazaki fragments in DNA chain growth (a) Result (b) Polymerise in the 3' to (c) Prove semi- (a) Result (b) Polymerise in the 3' to (c) Prove semi- (b) Polymerises in the 5' to 3' in 5' direction and forms conservative nature of direction and explain 3'to 5' transcriptionreplication fork DNA replication DNA replication DNA replication DNA replication Alancoid Polymerises in the 5' to 3' in 5' direction and forms conservative nature of direction and explain 3'to 5' transcriptionreplication initiation in prokaryotes, a GTP molecules is needed in (a) association of 30 s, (b) association of 50s subunit (c) formation (d) binding of 30 s mRNA with formyl met of ribosome with initiation of formyl met subunit of ribosome
DNA → mRNA → protein→ proposed by  (a) A - transcription, (b) A -  B-replication, C- James transcription, B-  transcription, B-  translation, C - Francisextension, C-Rosalind  Watson transcriptioii, C-  Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon,  i. Glucose or galactose may bind with the repressor and inactive it.  ii. In the absence of lactose, the repressor binds with the operator region  iii. The z-gene codes for permease.  iv. This was elucidated by Francois Jacob and Jacques Monod.  The correct statements are  (a) i and ii (b) ii and iii (c) ii and iv (d) i and ii  40) Which one of the following pairs of codons is correctly matched with their function or the single for the particular amino acid?  (a) GUU, GCU - (b) UAG, UGA - Stop (c) AUG, ACG - (d) UUA, UCA - Alanine codon start/methionine Leucine  41) The Okazaki fragments in DNA chain growth  (a) Result (b) Polymerise in the 3' to (c) Prove semi-  (a) association of 30 s, (b) association of 50s subunit (c) formation (d) binding of 30 s  mRNA with formyl met of ribosome with initiation of formyl met  tRNA with mRNA
a) A - transscription, (b) A - (c) A - transcription, B (d) A - transscription, B-Preplication, C - James transscription, B-Translation, C - Francisextension, C - Rosalind Watson transscription, B-Translation, C - Francisextension, C - Rosalind Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon, i. Glucose or galactose may bind with the repressor and inactive it.  ii. In the absence of lactose, the repressor binds with the operator region iii. The z-gene codes for permease.  iv. This was elucidated by Francois Jacob and Jacques Monod.  The correct statements are  (a) i and ii (b) ii and iii (c) ii and iv (d) i and ii  40) Which one of the following pairs of codons is correctly matched with their function or the single for the particular amino acid?  (a) GUU, GCU - (b) UAG, UGA - Stop (c) AUG, ACG - (d) UUA, UCA - Alanine codon start/methionine Leucine  41) The Okazaki fragments in DNA chain growth  (a) Result (b) Polymerise in the 3' to (c) Prove semi- (d) Polymerises in the 5' to 3' in 5' direction and forms conservative nature of direction and explain 3'to 5' transcriptionreplication fork DNA replication DNA replication  42) During translation initiation in prokaryotes, a GTP molecules is needed in  (a) association of 30 s, (b) association of 50s subunit (c) formation (d) binding of 30 s mRNA with formyl met of ribosome with initiation of formyl met subunit of ribosome tRNA complex transcriptase is
DNA → mRNA → protein → proposed by  (a) A - transcription, (b) A -  B-replication, C- James transcription, B-  Watson transcriptioi, C-  Erwin  39) Select the two statements out of the four (I -IV) given below about lac operon,  i. Glucose or galactose may bind with the repressor and inactive it.  ii. In the absence of lactose, the repressor binds with the operator region  iii. The z-gene codes for permease.  iv. This was elucidated by Francois Jacob and Jacques Monod.  The correct statements are  (a) i and ii (b) ii and iii (c) ii and iv (d) i and ii  40) Which one of the following pairs of codons is correctly matched with their function or the single for the particular amino acid?  (a) GUU, GCU - (b) UAG, UGA - Stop (c) AUG, ACG - (d) UUA, UCA - Alanine codon start/methionine Leucine  41) The Okazaki fragments in DNA chain growth  (a) Result (b) Polymerise in the 3' to (c) Prove semi-  (d) Polymerises in the 5' to 3'  in 5' direction and forms conservative nature of direction and explain 3'to 5'  transcriptionreplication fork DNA replication  42) During translation initiation in prokaryotes, a GTP molecules is needed in  (a) association of 30 s, (b) association of 50s subunit (c) formation (d) binding of 30 s  mRNA with formyl met of ribosome with initiation of formyl met subunit of ribosome tRNA complex tRNA with mRNA  43) Reverse transcriptase is  (a) RNA dependent (b) DNA dependent (c) DNA dependent  (d) RNA dependent
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do not resemble parent but resemble parent and resemble parent not resemble parents  DNA DNA DNA DNA
45) Whose experiment finally provided convincing evidence that DNA is the genetic material?
(a) Griffith (b) Avery, Macleod and (c) Hershey-Chase (d) Urey-Miller's
experiment McCarty's experiment experiment experiment
46) In Hershey - Chase experiment, the DNA of T <sub>2</sub> phase was made radioactive by
using
(a) $32p$ (b) $35_S$ (c) $35p$ (d) $32_S$
47) A nucleoside is composed of
(a) Sugar and (b) Nitrogen base and (c) Sugar and (d) Sugar, Phosphate and
Phosphate Phosphate Nitrogen base Nitrogenous base
48) Identify the incorrect statement  (a) a base is a substance (b) Both DNA and (c) Purines have single (d) Thymine is
that accepts H+ ion RNA have four bases carbon-nitrogen ring unique for DNA
49) Watson and Crick proposed their double helical DNA model based on the X-ray diffraction
analysis of
(a) Erwin Chargaff (b) Meselson and Stahl (c) Wilkins and Franklin (d) Griffith
50) If the length of E. coli DNA is 1.36 mm, the number of base pairs is
(a) $0.36 \times 10^6$ m (b) $4 \times 10^6$ m (c) $0.34 \times 10^{-9}$ mm (d) $4 \times 10^{-9}$ m
51) Identify the proper sequence in the organization of eukaryotic chromosome.
(a) Nucleosome - (b) Chromatid - (c) Solenoid - (d) Nucleosome -
Solenoid - Chromatid Nucleosome - Solenoid chromatin - DNA solenoid - genophore
52) Assertion (A): Genophore is noticed in prokaryotes.
Reason (R): Bacteria possess circular DNA without chromatin organisation.  (a) Both A and R are (b) A is correct R is (c) R explains (d) A is incorrect R is
correct incorrect A correct
53) Assertion (A): Heterochromatin is transcriptionally active.
Reason (R): Tightly packed chromatin which stains dark
(a) Both A and R are (b) A is correct R is (c) R explains (d) A is incorrect R is
correct incorrect A correct
54) Assertion (A): Semi-conservative model was proposed by Hershey and Chase.
Reason (R): The daughter DNA contains only new strands.
(a) Both A and R are (b) A is correct R is (c) R explains (d) A is incorrect R is
incorrect incorrect A correct
55) Replication of DNA occurs at phase of cell cycle.
(a) M (b) S (c) G <sub>1</sub> (d) G <sub>2</sub> 56) Semi-conservative model of replication was proved by
(a) Hershey and Chase (b) Griffith (c) Meselson and Stahl (d) Macleod and McCarty
57) How many types of DNA polymerases does a eukaryotic cell possess?
(a) two (b) three (c) four (d) five
58) Identify the incorrect statement
(a) Replication (b) Deoxy nucleotide (c) Unwinding of DNA (d) DNA polymerase
occurs at ori - site triphosphate acts as a strand is carried out by catalyses the
of DNA substrate topoisomerase polymerization at 3'-OH
59) Which is NOT a part of transcription unit?  (a) Promoter (b) Operator (c) Structural gene (d) Terminator
60) The RNA polymerase of prokaryotes binds with factor to initiate
polymerization.
(a) rho (b) theta (c) sigma (d) psi
61) Precursor mRNA A hnRNA
$\rightarrow$
<ul><li>(a) Capping</li><li>(b) Tailing</li><li>(c) Splicing</li><li>(d) Transcribing</li><li>62) Which of the following feature is absent in prokaryotes?</li></ul>
(a) Prokaryotes possess three(b) Structural genes (c) Initiation process of (d) Split
major types of RNAs are polycistronic transcription requires 'P' factor gene feature
63) Which of the following sequence has completely translated?
(i) AGA, UUU, UGU, AGU, UAG
(ii) AUG, UUU, AGA, UAC, UAA
(iii) AAA, UUU, UUG, UGU, UGA
(iv) AUG, AAU, AAC, UAU, UAG
(a) i and ii (b) ii only (c) i and iii (d) ii and iv
64) Capping of mRNA occurs using
(a) Poly A (b) Methyl guanosine (c) Deoxy ribonucleotide (d) Ribonucleotide residues triphosphate triphosphate

(') COLI ('') CALI (''') COC ('-) CAA	
(i) CCU (ii) CAU (iii) CCG (iv) CAA  (a) i only (b) ii and iv (c) iii only (d) all the above  67) Coding sequences found in split genes are called	
<ul> <li>(a) Operons</li> <li>(b) Introns</li> <li>(c) Exons</li> <li>(d) Cistron</li> <li>(8) Which of the following mRNA yields 6 amino acids after translation?</li> <li>(a) UCU UAU AGU</li> <li>(b) UGA AGA UAG</li> <li>(c) GUC UGC UGG</li> <li>(d) AUG UAC CAU</li> <li>CGA UGC AGU UGA GAG CAU CCC UAC GCU GAU UAA AGG UGC UGA UGC AGG</li> </ul>	
AAA UUU UAU GAU AGC AUU AGC CCG 69) The transcription termination factor associated with RNA polymerase in prokaryotes is (a) $\theta$ (b) $\sigma$ (c) $\rho$ (d) $\Sigma$	
70) In a DNA double strand, if guanine is of 30%, what will be the percentage of thymine?  (a) 100%  (b) 20%  (c) 10%  (d) 22  (d) 70%	
71) Identify the triplet pairs that code for Tyrosine  (a) UUU, UUC  (b) UAU, UAU  (c) UGC, UGU  (d) CAU, CAC	
72) AUG code is for	
codons in primary transcript is  (a) CUCAUACG (b) CUCAAUCG (c) UCAGAUCU (d) UUCAAUCG CCCG UCCG GCGC UGCG	
74) The promoter region of eukaryote is	
<ul> <li>75) In sickle cell anaemia, the codon of β - globin gene is modified</li> <li>(a) Eighth (b) Seventh (c) Sixth (d) Nineth</li> <li>76) Pick out the incorrect statement</li> </ul>	
(a) tRNA acts as an (b) Stop codons do (c) Addition of amino acid leads(d) tRNA has adapter molecule not have tRNA's to hydrolysis of tRNA four major loops	
77) Which of the following antibiotic inhibits the interaction between tRNA and mRNA?  (a) Neomycin  (b) Streptomycin  (c) Tetracycline  (d) Chloramphenicol  78) Repressor protein of Lac operon binds to  of operon.	
(a) Promoter region (b) Operator region (c) terminator region (d) inducer region  79) Lac Z gene codes for	
() $D$ $()$ $()$ $()$ $()$ $()$ $()$ $()$ $()$	
(a) Permease (b) transacetylase (c) $\beta$ -galactosidase (d) Aminoacyl transferase 80) How many structural genes are located in lac operon of E.Coli?	
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92) Human evolution occured in (a) Paleozoic (b) Cenozoic (c) Mesozoic (d) Precambrian 93) era is called age of mammals (b) Permian (c) Cenozoic (d) Paleozoic (a) Precambrian 94) Choose the correct sequence (a) Ordovician, (b) Devonian, Permian, (c) Devonian, Triassic, (d) Silurian, Triassic, Permian, Cretaceous, Cambrian Cretaceous, Ordovician Devonian, Permian, Cretaceous Triassic period. 95) Emergence of modern birds occurred in (c) Jurassic (d) Cretaceous (a) Devonian (b) Silurian 96) Origin of first man like apes occured in epoch (a) Oligocene (b) Miocene (c) Pliocene (d) Paleocene are not examples of homologous organs. (a) Thorn and (b) Forelimb of animals and (c) wing of bat (d) Flippers of penguins and tendrils wing of bat and bird dolphins is not a vestigial organ. (a) Nictitating membrane (b) Wisdom teeth (c) Ear muscles (d) Wing ofInsect 99) Presence of tail in human baby is an example for (a) Vestigial organ (b) Atavism (c) Homologous organ (d) Analogous organ 100) Lamarck theory was disproved by (c) Haeckel (d) Wallace (a) Weinberg (b) August Weismann 101) was a Neo Darwinist (a) Mendel (b) Osborn (c) Packard (d) Spencer 102) Human exploitation of forests, oceans etc leads to (b) Artificial (a) Chromosomal (d) Natural (c) Gene mutations Selection recombination selection 103) Centrifugal selection refers to (a) Directional selection (b) Disruptive selection (c) Stabilising selection (d) Kin selection 104) Founder's effect is related to (a) Genetic drift (b) Gene mutation (c) Extinction (d) Artificial selection 105) Australian ape Man refers to (a) Ramapithecus (b) Australopithecus (c) Dryopithecus (d) Sivapithecus 106) Was the first human like being (a) Homo habilis (b) Homo erectus (c) Homo sapiens (d) Homo erectus 107) Homo sapiens or modern human arose in (a) Australia (b) Africa (c) Germany (d) Eurasia 108) Morphological isolation is also known as (a) Physiological (b) Cytological (d) Seasonal (c) Mechanical isolation isolation isolation isolation 109) Mule is an example of (a) Hybrid inviability (b) Hybrid sterility (c) Hybrid breakdown (d) Hybridization 110) Which of the following is not a chromosomal mutation. (a) Deletion (b) Translation (c) Point mutation (d) Addition 111) Chose the Hardy Weinberg equation (a)  $(p+q)^2 = p^2 + 2pq$  (b)  $(p^2 + q^2) = p^2$ 112) The factor which affects Hardly Weinberg equation (a) Gene flow (b) Random mating (d) none of the above (c) No mutation 113) Homo erectus did not display this feature. (a) Flat skull (b) Large brain capacity (c) Vegetarian (d) Thicker than modern man 114) According to big bang theory, the primitive earth had all the following. Except: (a) Ammonia (b) Methane (c) Oxygen (d) Hydrogen and water vapour 115) Who coined the term prebiotic soup? (a) Haldane (b) Darwin (c) Thomas Huxley (d) Henry Bastian 116) Which statement is wrong regarding the Coacervates? (a) Coavervates are (b) Haldane suggested that the (c) These are large (d) They were able organic compounds could have colloidal particulars to absorb and the first pre-cells which gradually undergone a serious of reactions that precipitate out assimitate organic transferred into leading to more complex in aqueous compounds from the living cells. molecular. medium. environment. 117) All the following provided the energy for chemical reaction in the primitive earth. Except: (a) Rain (b) Lightning (c) UV radiations (d) volcanic activity 118) In, this type of selection no speciation takes place but the phenotype stability is maintained within the population over generation.

(a) Stabilizing selection	(b) Directional selection	(c) Disruptive selection	(d) Adaptive radiation	
	n of selection but leads to		nore different species	
(a) Adaptive	(b) Directional		tion(d) Stabilizing selection	
radiation	selection	1	( ) 5	
-	• •	but once such variati	ions occur, it favours some	
genetic changes whi				
(a) Genetic	(b) Chromosomal	(c) Reproductive		
recombination	mutation	isolation	selection	
	ned clearly through indust		Prodigality of production.	
	n Galapagos islands and A	• • • • • • • • • • • • • • • • • • • •		
(a) Industrial		(c) Genetic	(d) Adaptive	
mechanism		recombination	recombination	
•	Darwinism change in the	frequency of genes in	population arise due to all.	
Except.	(l-) M-4-4: (-	) C41- f	(4) Vanistian	
(a) Natural selection	* /	) Struggle for exister	ausative factor in the origin	
of new species	gradual accumulation of a	in variations are the c	ausauve factor in the origin	
(a) Sewell Wright	(b) Lamarck and Darwin	(c) Huxley (d)	Simpson and Haeckel	
125) Biogenetic law wa	* *	• • • • • • • • • • • • • • • • • • • •	145	
(a) Angust Weisman		aeckel (c) Wa	allace (d) Heinvich	
• -	ion is due to the difference	es in their external gen	nitalia that is seen in two	
different species.	(1) Pl	( ) G 1		
(a) Morphological isolation	(b) Physiological isolation	(c) Seasonal isolation	(d) Ethological isolation	460
	following brings about evi			
			rgans (d) Atavistic organs	
· · ·	are vestigial organs in hum	7 (100)		
	v muscles (c) Tail in hun		ing membrane of the eye	
	are examples of ontogeny			
	Appearance of pharyngeal		ppearance of tail in human	
heart slits		sac body		
	used to study the evolution (c) r RN		chrome C	
` '	periods of the Eva Paleozo	· / •		
,				
(a) Devonian				
(b) Ordovician				
(c) Cambrian				
(d) Putman				
(e) Carboniferous				
(f) Silurian (a) Cambrian →	(b) Ordovician →	(c) Silurian →	(d) Devonian $\rightarrow$	
Ordovician →	Devonian → Silyrian		Ordovician	
Silurian → Devonia	an $\rightarrow$ Permian $\rightarrow$	Devonian →	$\rightarrow$ Cambrian $\rightarrow$	
	→ Carboniferous →	Cambrian →	Carboniferous →	
Permian	Cambrian		rianSilurian → Permian	
	ce molecules can spontane	-		
surrounding is called	y solution and maintain a c	ilennear environment	different from then	
(a) Liposomes	(b) Coacervates	(c) protobionts	(d) protoviruses	
	silization, the molecules of	· / •	· · -	
• •	ginal substance being lost	•	•	
(a) Actual remains	\ / I	(c) natural moulds	(d) cast formation	
	assumption includes all. E		(1) 77 11 1 1 1	
	) No natural selection (c		d) Very small population	
(a) Stanley	al evolution was proposed (b) Urey (c) La		) Wiessmann	
•	witnessed decline of mam	` '	•	
(a) Triassiac	(b) Quaternary	(c) Tertiary	(d) Devonian	
	is not a vestigial organ.	•		
(a) Ear muscles	(b) Wings of bat	(c) Wisdom teeth	n (d) Coccyx	
138)	propounded Biogenetic la	aw.		

(a) Urey (b) Haldane (c) Von Haeckel	(d) Dobzhansky
139) Apple maggot flies are example of	
(a) Hybrid (b) Physiological (c) Allopatric	(d) Species
	Extinction
140) Failure in fertilization due to differences in chromosome number	rs
(a) Physiological (b) Chromosomal (c) Mechanical	
isolation mutation isolation	isolation
141) Heritable changes in or more characteristics of a population of _	from one
generation to other is called evolution.	
(a) Individuals (b) species (c) genus	(d) organisms
142) Living organisms originated from non-living materials and occur	rred through stepwise
chemical and molecular evolution is called and this star	ted in the theory of
(a) Coaceatvates, (b) Abiogenesis, (c) Pre-existing li	fe, (d) Pre-cell,
biogenesis spontaneous generation. chemical evolution	n. special creation.
143) Peripatus is the connection link between Annelida and	
(a) Arthropoda (b) Platyhelminthes (c) Mollusca	(d) Echinodermata
144) Due to change in the diet containing less cellulose,	
functionless and is reduced to a Vermiform appendix.	
(a) Small intensive (b) large intensive (c) Rec	ctum (d) caecum
145) Native offered positive selection pressure to the	
mechanism.	ioured mous in the massivar
(a) White (b) black (c) red (d) red a	and black
146) The wings of a bird and of an insect are	and order
(a) homologous (b) homologous (c) analogous stra	ucture (d) analogous
structure and represent structure and represent and represent	
convergent evolution divergent evolution convergent evolution	ion divergent evolution
147) Which one of the following statement is correct?	an an organic version
(a) stem cells (b) there is no evidence of the existence (c) all p	plant and (d) Ontogeny
are specialized of gills during embryogenesis of animal of	
cells mammals totipoten	
148) In Hardy - Weinberg equation, the frequency of heterozygous in	
(a) P <sub>2</sub> (b) 2pq (c) pq	(d) q2
149) The correct order in Era is	(a) 4
(a) Palaeozoic (b) Archaeozoic (c) Palaeozoic	(d) Mesozoic
Archaeozoic Palaeozoic Mesozoic	
Coenozoic Proterozoic Coenozoic	Proterozoic
150) The most apparent change during the evolutionary history of Ho	
	arkable increase in the brain
hair upright jaws size.	arkable increase in the orani
151) The process by which organisms with different evolutionary hist	ory evolve similar
phenotypic adaptations in response to a common environmental ch	
1 /1 1	tive radiation Human health
selection evolution evolution and disea	
152) Identify the incorrect statement in concern with Neanderthals	
(a) Neanderthal human were (b) They possessed (c) They used to	to (d) Their brain size is
found in Germany flat cranium bury their dead	
153) Which of the following statement does not satisfy Hardy Weinberg	
(a) A population (b) Small sized (c) Population where the	
undergoing random population mutation or gene flow	natural selection
mating	natural selection
154) Placental mammals develop during	
(a) Eocene (b) Oligocene (c) Pliocene	(d) Paleocene
155) Anatomical structures that have similar functions but not similar	
(a) Homologous (b) Vestigial (c) Analogus	(d) Generalized
structures structures structures	structures
	structures
156) Who propounded the theory of recapitulation?	a Havelov (d) Omonin
(a) Ernst Von Haeckel (b) Charles Darwin (c) Thoma	s Huxley (d) Oparin
157) Mammal in human male is	(1) II1
(a) Atavistic organ (b) Rudimentary Organ (c) Vestigial organ	
158) Which of the following is/are not examples of analogous structu	re
(a) Wings of Birds and Bats	
(b) Wings of Birds and Insects	

(c) Thorn of Bougainvillea and Tendril of Cucurbita
(d) Flippers of Penguins and Dolphins
(a) a, b, c (b) a and c (c) band d (d) All the above
159) Identify the mismatched pairs
(a) Thorn of Bougainvillea (b) Forelimbs of (c) Octopus eye & (d) Root of sweet potato
and Tenrdril of cucurbita - whale and cat - Mammalian eye - & stem of potato -
Analogy Homology Homology
160) Witnesses for evolution are found in
(a) Rocks (b) Ocean beds (c) Fossils (d) Desert
161) Assertion (A): Oparin used the term coacervases
Reason (R): Coacervates are colloidal particles in aqueous environment
(a) Both A and R are (b) Both A and R (c) Both A and R are correct. (d) A is correct R is
incorrect are correct R explains A. incorrect
162) According to the theory of spontaneous generation, life originated from
(a) Cosmic particles (b) Non-living materials (c) Coacervates (d) Sea
163) Assertion (A): Hardy - Weinberg principle states that allelic frequency of a population remain
constant
Reason (R): Constancy is maintained through natural selection and mutation
(a) A is true R is false (b) A is false R is true (c) Both A and R are true (d) R explains A
164) Calculate the allelic frequency of Aa, if 'A' allelic has frequency of 0.3 and 'a' allele has
frequency of 0.7
(a) 0.67 (b) 0.42 (c) 0.36 (d) 0.59
165) Genetic drift leads to
(a) Mutation (b) Bottle neck effect (c) Immigration (d) Isolation
166) Atavism refers to
(a) Inheritance of triat(b) Inheritance of (c) Criss-cross (d) Inheritance of characters not
by mother trial by father inheritance shown by parents
167) is a non infective disease.
(a) Cold (b) Arthritis (c) Chickenpox (d) Shigellos
168) Rigidity of the Jaw muscle is a symptom of
(a) Typhoid (b) Kala azar (c) Tetanus (d) Chikungunya
169) The site of infection for yersinia pestis is
1 The site of infection for Jersma posts is
(a) Intestine (b) Lungs (c) Lymph nodes (d) Nervous system
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185) Cystic fib	rosis isin origi	n and it is a_	dis	ease			
(a) fungal, infectious	(b) protozoan, Communicable		) degenera thogenic		) genetic, mmunical		
111100000	nfection of cholera is	pa	unogenic	co	mmunicat	oie	
(a) Droplet	_	aminated for	od (c) thr	ough wound	(d) thro	ugh wound	
infection	and water		infection	on	infection	1	
	genic bacteria causing			(1) C4			
	pestis (b) Clostridiu of our body is affected				tococcus p	neumoniae	
(a) Liver	(b) Salivary glands	(c) N			) Skin and	d blood	
189) Find out the	he mismatched pair	` ,	•				
(a)	T	(b)	1 00 1	(c)		(d)	
Viral discase	Affecting organs	Viral discase	Affecting organs	Viral discase	Affecting organs	Viral discase	Affecting organs
Dermotropio	Skin and	uiscasc	Central		Brain and		blood
Dermotropio	subcutaneous tissues	Neurotropio	nervous	Pneumotropic		Viscerotro <mark>pi</mark> c	and
			system		cord	Viscorotropic	
190) For the fo	llowing diseases, resp	irotomi avato	m is the sit	a of infaction	ovoont		organs
(a) Dengue		cken pox		ommon cold		Measles	
	show Enlargement of		. /		` /	, reasies	
(a) Measles			al hepatitis		Chicken	pox	
	ver and dengue fever a	are categoriz	ed under th	nis group, class	sifies base	d on the	
	h get affected		( ) 1				
(a) neurotro	opic (b) viscero disease	tropic	(c) dermo		(d) pneum disease	iotropic	
	ation period of malari	a' is	days.				
(a) 10	(b) 12		(c) 15		(d) 18		
	tement is wrong regar				1) 3.4.1	1.0 1	
	uman liver, (b) Eryth tes undergo and relase				d) Male ar		
sexual fissio				te is formed b			
195) The vector	r for filariasis is						•
(a) Culex m		heles mosqu		c) Aedes aegy	pti (d)	Tsetse fly	
	cance increases the blo				(1)	Camabia	
	(b) nicotine (c) and following statement is			ename	(d)	Cannabis	
	ects the cardiovascular		a out.				
-	ts a depressent on the	•	ous system				
	acid diethylamide dist			nears and feels			
	ates slows down the ac				241 1		
(a) I II IV	(b) II IV (c) is consumption of alco	) all the abo	ve	(d) none of	the above	:	
(a) Heart	(b) Kidney	_	(c) li	iver	(d) brai	n	
	t a lifestyle disorder in						
(a) Cancer	* *	(c) cardiova	scular dise	ase	(d) lung	disease	
(a) nicotine	ance not present in tob (b) tar (	oacco is c) Morphine	2	(d) carbon m	onovido		
` /	he mismatched pair	c) Morphine	J	(d) carbon in	olioxide		
(a)	(b)		(c)		(d)		
		Drugs	Group				
		bisMorphin	e Halluc	inogens LSD	Stimul	ants Cocaine	
(a) LSD	is not present in tobac (b) Nicotine	co (c) Carbon	monovida	(	d) both ba	and a	
* *	e correct sequence with	* *			a) bom b	and C	
(i) Sporozoi	-	in regula to l	olusiiio arai	11.			
(ii) Microga							
(iii) Signet r	ring stag						
(iv) oocyte	::	: :	(-) · ·	:: :::	(4)	:: :	
(a) i, iii, iv,	ii (b) i, iii, ii iion of erythrocyte cyc		(c) i, iv,		(d) i, ii, ii	11, 1V	
(a) 75 hours				le is 2 hours	(d) 48 ł	nours	
	e symptom not seen ir				( ) .01		
(a) Diarrhoo	ea (b) Abdom	ninal pain	(	c) Ulceration	(0	d) Fever	

is not linked to malaria	(1) Interlession
(a) Haemozoin (b) TNF-a (c) Phencyclidine	(d) Interleuin
207) is a genetic disease  (a) Rickets (b) Cystic fibrosis (c) Tuberculosi	(d) Candidiasis
208) Pick out the disease which is caused by virus	(u) Candidiasis
(a) Candidiasis (b) Ascariasis (c) Poliomyelitis	(d) Dysentery
209) test is done to confirm typhoid.	(d) Dyschery
(a) ELISA (b) Western blot (c) Widal test	(d) Southern blot
210) Identify the mismatched pair	(a) Southern Slot
(a) Hepatitis - (b) Poliomyelitis - Brain and (c) Measles -	d) Mumps - Salivary
Liver spinal cord Intestine	gland
211) Identify the wrong statement regarding polio disease.	
(a) Polio is (b) One of the infection (c) Culex mosquito	(d) Paralysis and
caused by a RNA site of polio is intestine acts as a vector for	respiratory failure are the
virus polio.	symptoms.
212) Yellow fever is a type of disease.	
(a) Neurotropic (b) Viscerotropic (c) Pneumotropic	(d) Dermotropic
213) Which one of the following pairs is wrong.	
(a) Amoebiasis - (b) African sleeping sickness (c) Kala-azar -	
Home fly - Tsetse flies Sand fly	Anopheles mosquito
214) Schizogony of Plasmodium parasite in human liver cells returns	
(a) sporozoites (b) merozoites (c) trophozoites	(d) schizont
215) Assertion (A): Plasmodium vivax is a digenic parasite	
Reason (R): The primary host of P. vivax is man.	
(a) Both (A) and (R) are true. (R) (b) (A) is true (R) (c) Both (A)	
explains (A) is false are false	is true
216) Assertion (A): Dermatomycosis is a cutaneous infection.	
Reason (R): Fungus belongs to the order Trichophyton.	and (D) (d) (A) is false (D)
(a) Both (A) and (R) are true. (R) (b) (A) is true (R) (c) Both (A) explains (A) is false are false.	is true
	is true
217) Assertion (A): Spleen is a primary lymphoid organ Reason (R): Primary lymphoid organs trap antigen and destroy th	om.
(a) Both (A) and (R) are true. (R) (b) (A) is true (R) (c) Both (A)	
explains (A) is false are false	is true
218) Assertion (A): Paratope is the antigen-binding site.	is true
Reason (R): It is a part of antibody	
(a) Both (A) and (R) are true. (R) (b) (A) is true (R) (c) Both (A)	(A) and $(B)$ $(d)$ $(A)$ is false $(B)$
explains (A) is false are false	is true
219) Assertion (A): HIV is a DNA virus.	
Reason (R): HIV belongs to genus Lentivirus	a) and (R) (d) (A) is false (R)
	a) and (R) (d) (A) is false (R) is true
Reason (R): HIV belongs to genus Lentivirus  (a) Both (A) and (R) are true. (R) (b) (A) is true (R) (c) Both (A explains (A) is false are false.	
Reason (R): HIV belongs to genus Lentivirus  (a) Both (A) and (R) are true. (R) (b) (A) is true (R) (c) Both (A)	
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(a) Neoplasm or tumor cells show uncontrolled growth	
(b) They are metastatic	
(c) They lack contact inhibition	
(d) They may be benign or malignant	
(a) (a) only (b) (b) and (c) (c) (d) only (d) All the above	
229) Study dealing with body's defence mechanism against disease is called	
(a) Pathology (b) Immunology (c) Microbiology (d) Dermatology	
230) AIDS is characterized by sharp reduction in number of	
(a) helper T cells (b) killer T cells (c) superior T cells (d) B-cells	
231) Plague and malaria are caused by and respectively.	
(a) bacteria and virus (b) fungi and protozoa (c) bacteria and protozoan (d) fungi and bacteria	
232) A pair of fungal disease	
(a) Amoebiasis, Kala-(b) Candidiasis, Athlete's(c) Ascariasis, (d) Poliomyelitis,	
azar foot Filariasis Amoebiasis	
233) Plant source of Heroin is	
(a) Poppy plants (b) Cannabis plants (c) Datura species (d) Atropa species	
234) The test that confirms HIV positive is	
(a) Western blot (b) Northern blot (c) Southern blot (d) all the above	
235) Bacillary dysentery is caused due to  (a) Salmonella (b) Shigella (c) Clostridium (d) Yersinia	
(a) Salmonella (b) Shigella (c) Clostridium (d) Yersinia	
236) Cocaine is a potent (a) Sedative (b) Hallucinogen (c) pain reliever (d) neurotransmitter	
237) Alkaloid found in tobacco is(c) heroin (d) nicotine	•
(a) Atropine (b) cocaine (c) heroin (d) nicotine	
(a) Atropine  (b) cocaine  (c) heroin  (d) nicotine  238) is a chronic memory disorder due to alcohol misuse.  (a) Cushing's  (b) Turners'  (c) Klinefelters'  (d) Korsakoff  syndrome  syndrome  syndrome  239) The enzyme is got from Aspergillus.  (a) Rennet  (b) Zymase  (c) Amylase  (d) Lipase  240) World Rieffeld day is chearyed on	
(a) Cushing's (b) Turners' (c) Klinefelters' (d) Korsakoff	
230) The summer is not form A susualities	
(a) Pannet (b) Zymasa (c) Amylasa (d) Linasa	
(a) Remet (b) Zymase (c) Amyrase (d) Lipase	
240) World Biofuel day is observed on  (a) 10 <sup>th</sup> September  (b) 22 <sup>nd</sup> April  (c) 10 <sup>th</sup> August  (d) 17 <sup>th</sup> October	
241) 7 4 1 11 1 . 1 4 1	
(a) Citric acid (b) Milk (c) Acetic acid (d) Butyric acid	
242) Aspergillus niger helps to produce	
(a) Citric acid (b) Acetic acid (c) Turmeric acid (d) Lactic acid	
243) Genetically engineered as a crawsed as alot buster in cardiac related issues	
243) Genetically engineered are used as clot buster in cardiac related issues  (a) Staphylococcus (b) Yeast (c) Penicillium (d) Streptococci	
244) got from fungi is used as an immune suppressant in organ transplantation.	
(a) Statin (b) Cyclosporin A (c) Insulin (d) Protease	
245) The first bio herbicide was got from	
(a) Trichoderma (b) Phytophthora species (c) Bacillus (d) Aspergillus	
246) is not used as a biofertilizer	
246)is not used as a biofertilizer  (a) Bacillus thuringiensis (b) Rhizobium (c) Nostoc (d) Anabaena	
(a) Bacillus thuringiensis (b) Rhizobium (c) Nostoc (d) Anabaena	
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(a) Bacillus thuringiensis (b) Rhizobium (c) Nostoc (d) Anabaena  247)	
(a) Bacillus thuringiensis (b) Rhizobium (c) Nostoc (d) Anabaena  247) is used for recycling of PET plastics  (a) Dechloromonas (b) Phanerochaete (c) Ideonella (d) aromatica chrysosporium sakaiensis Nitrosomonas  248) is free living bacteria which acts as a biofertilizer.  (a) Azospirillum (b) Nostoc (c) Oscillatoria (d) Glomus  249) Mycorrhiza cannot contribute to this process.  (a) Resistance to (b) Tolerance to (c) Help to fix (d) Enhance plant pathogens salinity nitrogen growth  250) is not a part of MFC  (a) Bacteria (b) Semi permeable Membrane (c) Cathode (d) Electric circuit  251) The cry toxin affects system of insect pests  (a) Nervous system (b) Respiratory system (c) Digestive system (d) Reproductive system  252) Biofertilizers are not involved in this process  (a) increase water holding (b) Help to degrade (c) Provide (d) Improve soil capacity of soil pollutants nutrients texture	
(a) Bacillus thuringiensis (b) Rhizobium (c) Nostoc (d) Anabaena  247) is used for recycling of PET plastics  (a) Dechloromonas (b) Phanerochaete (c) Ideonella (d) aromatica chrysosporium sakaiensis Nitrosomonas  248) is free living bacteria which acts as a biofertilizer.  (a) Azospirillum (b) Nostoc (c) Oscillatoria (d) Glomus  249) Mycorrhiza cannot contribute to this process.  (a) Resistance to (b) Tolerance to (c) Help to fix (d) Enhance plant pathogens salinity nitrogen growth  250) is not a part of MFC  (a) Bacteria (b) Semi permeable Membrane (c) Cathode (d) Electric circuit  251) The cry toxin affects system of insect pests  (a) Nervous system (b) Respiratory system (c) Digestive system (d) Reproductive system  252) Biofertilizers are not involved in this process  (a) increase water holding (b) Help to degrade (c) Provide (d) Improve soil capacity of soil pollutants nutrients texture  253) is a prokaryotic organism helping to improve fertility of the soil  (a) Glomus (b) Azolla (c) legume (d) Tolypothrix	
(a) Bacillus thuringiensis (b) Rhizobium (c) Nostoc (d) Anabaena  247)	
(a) Bacillus thuringiensis (b) Rhizobium (c) Nostoc (d) Anabaena  247) is used for recycling of PET plastics  (a) Dechloromonas (b) Phanerochaete (c) Ideonella (d) aromatica chrysosporium sakaiensis Nitrosomonas  248) is free living bacteria which acts as a biofertilizer.  (a) Azospirillum (b) Nostoc (c) Oscillatoria (d) Glomus  249) Mycorrhiza cannot contribute to this process.  (a) Resistance to (b) Tolerance to (c) Help to fix (d) Enhance plant pathogens salinity nitrogen growth  250) is not a part of MFC  (a) Bacteria (b) Semi permeable Membrane (c) Cathode (d) Electric circuit  251) The cry toxin affects system of insect pests  (a) Nervous system (b) Respiratory system (c) Digestive system (d) Reproductive system  252) Biofertilizers are not involved in this process  (a) increase water holding (b) Help to degrade (c) Provide (d) Improve soil capacity of soil pollutants nutrients texture  253) is a prokaryotic organism helping to improve fertility of the soil  (a) Glomus (b) Azolla (c) legume (d) Tolypothrix	

256) Plants used for bio-diesel production	oderma (c)	Polyporus (d) Pez	iza	
	-			
(a) Anabaena (b) Jatropha	(c) Pongamia	(d) b and c		
257) is not a biocontrol agent (a) Trichoderma (b) Dragonfly	(c) Glomus	(d) Buculovirus		
258) Rhizopus oryzae can produce	(c) Greinas	(a) Bacaroviras		
(a) Fumaric acid (b) Malic acid	(c) Acetic acid	d (d) Citric acid		
259) When domestic sewage mixes with river water		(1) <del></del>		
	The increased crobial activity	(d) The river water is suitable for drinking as		
after drinking river releases micronutrients use		impurities are only abo		
<u> </u>	gen.	percent		
260) Select the correct statement from the following				
		) Activated sludge-sedim	nent in.	
		eatment plant is a right so	urce	
bacteria on animal bacterium found in pure		aerobic bacteria.		
waste. rumen of cattle.				
261) Read the following four statements (A to D):				
<ul><li>a) Colostrums is recommended for the newborn</li><li>b) Chikungunya is caused by a gram negative ba</li></ul>		n in antigen.		
c) Tissue culture has proved useful in obtaining				
d) Beer is manufactured by distillation of fermer	-			
How many of the above statements are wrong?	0 1 0			
(a) Three (b) Four	(c) One	(d) Two		
262) Which of the following are likely to be present (a) Archaebacteria (b) Eubacteria (c) Bl	t in deep-sea wa ue-green algae	ter? (d) Saprophytic fung		
263) During sewage treatment, biogas are produced			31	
		lphide, (d) Hydrogen		
	nethane, sulphui	r dioxide sulphide, nitrog	en,	
sulphide		methane		
(a) (b) Methane, (c) Methane,		e) Consumption of organ	aie.	
		natter in the water is high		
Wiethane ny arogen surpinae ny arogen				
and $CO_2$ and $CO_2$ sulphide and $O_2$	sulphide and th			
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only	sulphide and th			
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only 265) Match, the following list of microbes and their	sulphide and the CO importance:	ne microbes		
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae (i) Production of	sulphide and the CO importance:	ne microbes		
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae b) Monasus purpureus c) Trichoderma polysporum (ii) Commercial	sulphide and the CO importance: Cimmunosuppre Swiss cheese production of co	essive agents ethonol	5,	
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii(iv) Production of the control of the co	sulphide and the CO importance: Simmunosuppre Swiss cheese production of ending the blood - cholese	essive agents ethonol sterol lowering agents.	·	
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii (iv) Production of (iv) (iii) (ii) (i) (b) (iv) (ii) (i) (iii) (iii)	sulphide and the CO importance: immunosuppre Swiss cheese production of confession (ii) (i) (iv)	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)	·	
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii (iv) Production of (iii) (iii) (iii) (iii) (iv) (iii) (iii) (iv) (iii) (iv) (iii) (iv) (iv	sulphide and the CO importance: immunosuppre Swiss cheese production of conference (c) (iii) (i) (iv) the given table	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)	·	(d)
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii (iv) Production of (iii) (iii) (iii) (iii) (iv) (iii) (iii) (iv) (iii) (iv) (iii) (iv) (iv	sulphide and the CO importance: immunosuppre Swiss cheese production of conference (c) (iii) (i) (iv) the given table	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)	·	(d) nMicrobe
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii (iv) Production of (iii) (iii) (iii) (iii) (iv) (iii) (iii) (iv) (iii) (iv) (iii) (iv) (iv	sulphide and the CO importance: immunosuppre Swiss cheese production of conference (c) (iii) (i) (iv) the given table	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)	(ii)    Product   Applicatio   Removal co	n Microbe of Clostridium
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii (iv) Production of (iii) (iii) (iii) (iii) (iv) (iii) (iii) (iv) (iii) (iv) (iii) (iv) (iv	sulphide and the CO importance: immunosuppre Swiss cheese production of conference (c) (iii) (i) (iv) the given table	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)	(ii)  Product Applicatio Removal of clot from	n Microbe
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii (iv) Production of (iii) Commercial (iv) Production of (iv) (iii) (ii) (i) (b) (iv) (ii) (i) (iii) (c)  266) Which of the following is wrongly matched in (a)  Microbe Product Application  Trichoderma Cyclosporin Immunosuppressive	sulphide and the CO importance: immunosuppre Swiss cheese production of conference (c) (iii) (i) (iv) the given table	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)	Product Applicatio Removal of clot from blood	n Microbe of Clostridium
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii (iv) Production of (iii) (iii) (iii) (iii) (iv) (iii) (iii) (iv) (iii) (iv) (iii) (iv) (iv	sulphide and the CO importance: fimmunosuppre Swiss cheese production of election of blood - cholese (i) (ii) (i) (iv) the given table on the consultation of the cons	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)  (c) Application Lowering of blood cholesterol  Streptococcu	Product Applicatio Removal of clot from blood vessel	n Microbe of Clostridium
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii (iv) Production of  (a) (iv) (iii) (ii) (i) (b) (iv) (ii) (i) (iii) (c)  266) Which of the following is wrongly matched in  (a) (b)  Microbe Product Application  Trichoderma Cyclosporin Immunosuppressive drug  polysporum A  267) Match Column - I with Column - II and select below:	sulphide and the CO importance: fimmunosuppre Swiss cheese production of election of blood - cholese (i) (ii) (i) (iv) the given table on the consultation of the cons	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)  (c) Application Lowering of blood cholesterol  Streptococcu	Product Applicatio Removal of clot from blood vessel	n Microbe of Clostridium
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae (i) Production of (ii) Ripening of (c) Trichoderma polysporum (d) Propionibacterium shermanii (iv) Production of (a) (iv) (iii) (ii) (i) (b) (iv) (ii) (i) (iii) (c)  266) Which of the following is wrongly matched in (a) (b)  Microbe Product Application  Trichoderma Cyclosporin Immunosuppressive polysporum A  267) Match Column - I with Column - II and select below:  Column I  Column II  Column II	sulphide and the CO importance: fimmunosuppre Swiss cheese production of election of blood - cholese (i) (ii) (i) (iv) the given table on the consultation of the cons	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)  (c) Application Lowering of blood cholesterol  Streptococcu	Product Applicatio Removal of clot from blood vessel	n Microbe of Clostridium
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii(iv) Production of (ii) (iii) (iii) (iii) (iv) (iii) (iii) (iii) (iv) (iii) (iii) (iv) (iv	sulphide and the CO importance: fimmunosuppre Swiss cheese production of election of blood - cholese (i) (ii) (i) (iv) the given table on the consultation of the cons	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)  (c) Application Lowering of blood cholesterol  Streptococcu	Product Applicatio Removal of clot from blood vessel	n Microbe of Clostridium
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii(iv) Production of  (a) (iv) (iii) (ii) (i) (b) (iv) (ii) (i) (iii)  266) Which of the following is wrongly matched in  (a) (b)  Microbe Product Application  Trichoderma Cyclosporin Immunosuppressive drug  polysporum A  267) Match Column - I with Column - II and select below:  Column I Column II  A. Citric acid 1. Trichoderma  B. Cyclosporin A2. Clostridium	sulphide and the CO importance: fimmunosuppre Swiss cheese production of election of blood - cholese (i) (ii) (i) (iv) the given table on the consultation of the cons	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)  (c) Application Lowering of blood cholesterol  Streptococcu	Product Applicatio Removal of clot from blood vessel	n Microbe of Clostridium
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii(iv) Production of (ii) (iii) (iii) (iii) (iv) (iii) (iii) (iii) (iv) (iii) (iii) (iv) (iv	sulphide and the CO importance: fimmunosuppre Swiss cheese production of election of blood - cholese (i) (ii) (i) (iv) the given table on the consultation of the cons	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)  (c) Application Lowering of blood cholesterol  Streptococcu	Product Applicatio Removal of clot from blood vessel	n Microbe of Clostridium
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their a) Saccharomyces cerevisiae b) Monasus purpureus c) Trichoderma polysporum d) Propionibacterium shermanii (iv) Production of (a) (iv) (iii) (ii) (i) (b) (iv) (ii) (i) (iii) (iii)  266) Which of the following is wrongly matched in (a)  Microbe Product Application Trichoderma Cyclosporin Immunosuppressive drug  267) Match Column - I with Column - II and select below:  Column I A. Citric acid 1. Trichoderma B. Cyclosporin A2. Clostridium C. Statins 3. Aspergillus D. Butyric acid 4. Monoscus (a) A:3, B:1, C:4, D:2 (b) A:1, B:4, C:2, D:3 (c)	sulphide and the CO importance: immunosuppre Swiss cheese production of electric (iii) (i) (iv) the given table on the correct option the correct option the correct option  (c) A:3, B:4, C:	ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)  (c) Application Microbe Lowering of blood cholesterol  Streptococcutons using the codes given	Product Application Removal of clot from blood vessel	n Microbe of Clostridium
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their a) Saccharomyces cerevisiae b) Monasus purpureus c) Trichoderma polysporum d) Propionibacterium shermanii (iv) Production of (a) (iv) (iii) (ii) (i) (b) (iv) (ii) (i) (iii) (iii)  266) Which of the following is wrongly matched in (a)  Microbe Product Application Trichoderma Cyclosporin Immunosuppressive drug  Mug  267) Match Column - I with Column - II and select below:  Column I Column II A. Citric acid 1. Trichoderma B. Cyclosporin A2. Clostridium C. Statins 3. Aspergillus D. Butyric acid 4. Monoscus (a) A:3, B:1, C:4, D:2 (b) A:1, B:4, C:2, D:3 (268) The leavering of the dough during fermentatio	sulphide and the CO comportance: Communosuppressulproduction of control of blood - choles control (iii) (i) (iv) the given table conascus repureus  Statins  The correct option of the correct option optio	ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)  (c)  Application Microbe Lowering of blood cholesterol ons using the codes given  1, D:2 (d) A:3, B:1, C:2	Product Application Removal of clot from blood vessel  2, D:4	n Microbe of Clostridium
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their a) Saccharomyces cerevisiae b) Monasus purpureus c) Trichoderma polysporum d) Propionibacterium shermaniii (iv) Production of (a) (iv) (iii) (ii) (i) (b) (iv) (ii) (i) (iii) (iii)  266) Which of the following is wrongly matched in (a)  Microbe Product Application Trichoderma Cyclosporin Immunosuppressive drug  Monasus purpureus (ii) Ripening of (iii) Commercial (iv) Production of (a) (iv) (iii) (i) (iv) (ii) (i) (iii) (iv) (iii) (iv) (iii) (iv)	sulphide and the CO importance: Cimmunosuppre Swiss cheese production of control of blood - cholese c) (iii) (i) (iv) the given table of the correct option the correct option the correct option (c) A:3, B:4, C: n is due to c) Formation of the CO	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)  (c) Application Microbe Lowering of blood cholesterol ons using the codes given  1, D:2 (d) A:3, B:1, C:2  f (d) Action of zyma	Product Application Removal of clot from blood vessel  2, D:4	n Microbe of Clostridium
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii (iv) Production of (iii) Commercial (iv) (iii) (iii) (i) (iv) (iii) (iii) (iv) (iii) (iii) (iv) (iii) (iii) (iv) (iii) (iii) (iv) (iv	sulphide and the CO rimportance: Fimmunosuppre Swiss cheese production of electric (iii) (i) (iv) the given table (icrobe product rpureus Statins  the correct option  (c) A:3, B:4, C: n is due to c) Formation of exygen	ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)  (c)  Application Microbe Lowering of blood cholesterol ons using the codes given  1, D:2 (d) A:3, B:1, C:2	Product Application Removal of clot from blood vessel  2, D:4	n Microbe of Clostridium
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their a) Saccharomyces cerevisiae b) Monasus purpureus c) Trichoderma polysporum d) Propionibacterium shermaniii (iv) Production of (a) (iv) (iii) (ii) (i) (b) (iv) (ii) (i) (iii) (iii)  266) Which of the following is wrongly matched in (a)  Microbe Product Application Trichoderma Cyclosporin Immunosuppressive drug  Monasus purpureus (ii) Ripening of (iii) Commercial (iv) Production of (a) (iv) (iii) (i) (iv) (ii) (i) (iii) (iv) (iii) (iv) (iii) (iv)	sulphide and the CO rimportance: rimmunosuppre Swiss cheese roduction of cof blood - cholese c) (iii) (i) (iv) the given table conascus rpureus Statins the correct option the correct option the correct option construction of correct option construc	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)  (c)  Application Microbe Lowering of blood cholesterol  Ons using the codes given  1, D:2 (d) A:3, B:1, C:2  f (d) Action of zyma enzyme	Product Application Removal of clot from blood vessel  2, D:4	n Microbe of Clostridium
and CO <sub>2</sub> and CO <sub>2</sub> sulphide and O <sub>2</sub> only  265) Match, the following list of microbes and their  a) Saccharomyces cerevisiae  b) Monasus purpureus  c) Trichoderma polysporum  d) Propionibacterium shermanii (iv) Production of (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iiii) (iiiii) (iiiii) (iiiii) (iiiiii) (iiiiiiii	sulphide and the CO rimportance: rimmunosuppre Swiss cheese roduction of cof blood - cholese c) (iii) (i) (iv) the given table conascus rpureus Statins the correct option the correct option the correct option construction of correct option construc	essive agents  ethonol sterol lowering agents.  (ii) (d) (iii) (i v) (i)  (c)  Application Microbe Lowering of blood cholesterol  Ons using the codes given  1, D:2 (d) A:3, B:1, C:2  f (d) Action of zyma enzyme	Product Application Removal of clot from blood vessel  2, D:4	n Microbe of Clostridium

(ii) bacteriastatic antic					
(iii) narrow spectrum					
(iv) Broad spectrum a					
(a) i and iii	(b) ii and iii	(c) i and iv	(d) ii a	nd iv	
271) Chlortetracycline wa					
(a) Streptomyces	(b) Streptomyce	s (c) Streptoco		Aspergillus	
aureofaciens	griseus	lactis	nig	ger	
272) Identify the name ar	nd the formula of industr	rial alcohol			
(a) Butanol, C <sub>4</sub> H <sub>9</sub> OH	(b) Propanol, C <sub>3</sub> H <sub>7</sub> OH	H (c) Ethanol, C <sub>2</sub> H <sub>5</sub>	5OH (d) Me	ethanol, CH <sub>3</sub> OH	
273) Pick the bacterial sp	pecies which is not used	in ethanol formation	1		
		Saccharomyces	(d) Strept	omyces	
mobilis		visiae	aureofacie	ns	
274) Human insulin is be	ing commercially produ	ced from a transgen			
,			F		
(a) Escherichia	(b) Mycobacterium	(c) Streptococo	eus (d	) Penicillin	
275) Select the correct sta	· ·				
(a) Primary treatment		Delta endotoxin of	(d) Tricho	derma is a free-	
of sewage involves		Illus thuringiensis is			
biological oxidation			_	root ecosystem	
olological oxidation	Gobur	ded by pen genes	common n	1 Toot ecosystem	
276) Oil strains in laundr					
(a) Peptidane	(b) Protease	(c) Amylase	- (d)	Lipase	
277) Find the odd sentence	` /	(c) Amylase	(u)	Lipase	<b>♦. (</b> (
		CO2 am 1 11			
	onsists of methane with				
` ′	OD of wastewater the mo		ential		
· /	is observed on 10th Au				
	obtained from Trichode				
	ii and iv (c) i a				
278) Statement 1: Prebio	tics are the compounds i	n food that induce the	he growth of	beneficial	
microbes					
Statement 2: LAB is a	probiotic				
(a) Statement 1 is	(b) Statement 1 is	(c) Both the	(d)	Both the	
correct. Statement 2 is					
incorrect.	correct	incorrect.		correct	
279) Statement 1: Saccha	romyces cerevisiae is co	ommonly called as F	Baker's veast.		
	s produced by the fermer				
(a) Statement 1 is	(b) Statement 1 is			Both the	
correct. Statement 2 is		2 is statements 1 ar			
incorrect	correct	incorrect		orrect.	
280) The flavour in the y	. • A Y	meorreet	die e	offect.	
(a) Formal dehyde	(b) Lactate	(c) Acetaldehyd	la 1	d) Caesin	
	` '	• • • • • • • • • • • • • • • • • • • •	ie (	u) Caesiii	
281) Assertion (A): Strep					
	c are microbial chemical				
	(b) R explains (c) A an			ht. R cannot	
wrong.	A. wrong.	explain			
282) Assertion (A): Oeno					
	y deals with bioch <mark>emic</mark> a				
(a) A is right R is	(b) R explains (c) A ar	` '	and R are righ	nt. R cannot	
8	A. wrong.	explain			
283) In primary sewage t	reatment, the floating de	ebris are removed by			
(a) Distillation (b)	Sedimentation (c) Se	quential filtration	(d) Biologi	cal oxidation	
284) Yamuna Action Plan	n was a bilateral project	signed between			
(a) India and Pakistar	1 0		na (d) Ind	ia and Srilanka	
Government	Government	Government	Govern		
285) Select the correct or					
(a) Filtration,	(b) Sedimentation,	(c) Filtration, Aer		/ radiation	
Sedimentation,	Filtration, Biological	Biological oxidation		entation,	
Aeration, Biological	oxidation, Aeration an			· ·	
oxidation and UV	UV radiation.	radiation.		on, Biological on and Aeration.	
radiation	O v Taulation.	raurauon.	UXIUALI	on and Atlanon.	
			1 6 1	4 4 0	
286) Which of the follow					
(a) Ground nut (b	o) Areca nut (c) Jat	ropha curcas (	d) Phyllanth	us anarus	



# Ravi home tutions MCQ ZOO CREATIVE 9-13

### 12th Standard

### Biology

 $210 \times 1 = 210$ 

		210 M 1 2
1) Insulin was first isolated by	( ) 1771	(1) 1
(a) Banting (b) Allen		(d) Anderson
2) Alpha lactalbumin is a protein with		(1) 140
(a) 120 (b) 133	` '	(d) 140
3) Interferons are produced using		(d) winners
(a) Pigs (b) yeast  1) The two chains of Insulin melecule and	(c) E.coli	(d) viruses
4) The two chains of Insulin molecule are (a) Covalent bonds (b) disulphide	-	n bonds (d) both a and b
5) Best and Banting isolated insulin from p		
	(c) dog	
6) Interferons were discovered by	(e) dog	(a) pig
(a) Banting (b) Flemming (c)	– Engvall (d) Alick I	saacs and Lindemann
7) The first synthetic vaccine produced wa	_	Canada Mila Emila
(a) DPT (b) HbsAg		(d) Polio
8) Myeloid stem cells can differentiate into		
(a) Totipotency (b) Unipotency		
9) Choose the option not applicable to ELI		
(a) It is a bio chemical (b) The intensi		t (d) ELISA is a test for
produce to detect obtained in the		$\mathcal{E}$
antigens in a sample proportional to		
antigen.	DNA	
10) The first living ~rganism to be patented		(1) 1 (1 '11
(a) E.coli (b) Saccharomyces	(c) Pseudomonas putid	a (d) Lactobacillus
is not linked to IPR.	(a) CI	(d) trademarks
(a) Patents (b) Copy rights		(u) trademarks
12) All the following are the functions of it (a) Insulin controls the (b) Insulin fac	-	acilitates (d) Insulin breaks the
level of glucose in the the cellular up		
blood glucose	glucose	energy
13) Pre-pro insulin is devoid of	S	
(a) C chain (b) disulphide bonds (c	c) COOH and NH2 gro	oup (d) Polypeptide chain
14) Using recombinant E.Coli, mass produ	ction of hGH is carried	out by
(a) genetic engineering (b) biotechnological	ogy (c) fermentation ted	chnology (d) recombinant DNA
15) The genes for the formation of the bloc	od dotting factor VIII is	located in
thechromosome.		
(a) autosome (b) X chromosome	(c) allosome	(d) Y chromosome
16) All the following are recombinant vacc	eines. Except	
(a) Traditional (b) Submit recomb	* * .	
vaccines vaccines	vaccines	vaccines
17) This is a live vaccine, in this geneticall		<u> </u>
(a) Attenuated recombinant (b) Sub-	` ′	DNA (d) Traditional
vaccine Vaccine	V/a	come vaccine

18) This is not the advantage of new generation vaccine	
(a) They trigger immune response (b) They (c) They produce (d) They are with	h
only against not specific pathogens produce target long lasting less toxic effect	
proteins immunity	
19) The edible subunit vaccine used against this disease is.	
(a) measles (b) hepatitis (c) cholera (d) feet and mouths	
20) In the geom line gene therapy, the genes are introduced into the	
(a) bone marrow cells (b) blood cells (c) sperms and eggs (d) skin cells	
21) This type of gene therapy involves the insulin C the anti sense gene which inhibits the	
expression of the dominant gene	
(a) gene inhibition (b) gene augmentation (c) germ line gene (d) somatic cell gene	
therapy therapy therapy	
22) In the gene therapy far SCID cells are removed from the blood, and ADA gene is	
introduced into it using retrovirus.	
(a) RBC (b) Wobe (c) Lymphocytes (d) monocytes	
23) Stem cells that can differentiate into various types of cells that are related in an organism is	
called	
(a) Multipotent (b) Oligopotent (c) Pluripotent (d) Unipotent	
24) Most of the adult stem cells are and can act as a repair system of the body	
(a) Totipotent (b) Multipotent (c) Oligopotent (d) Pluvipotent	
25) Most popular sources of stem cells from their bank	
(a) amniotic cell (b) cord blood (c) plancenta blood (d) amniotic fluid cell	
bank bank bank	
26) Early detection of the disease is not possible using their conventional diagnostic metho	
(a) microscopic (b) recombinant DNA (c) polymerase chain (d) enzyme linked	
examination technology reactions immunosorbent assay	
27) The purpose of using enzyme in the ELISA test is	
(a) to show the (b) to show the antigen- (c) to show the (d) to show the	
coloured product antibody reaction immobilised antigen immobilized antigen	
28) Throgh PCR technique, amplication of is possible with reverse transcriptase	
(a) DNA (b) rRNA (c) tRNA (d) mRNA	
29) Rearrange the following steps as PCP in correct order.	
1. Extension	
2. Annealing	
3. Denaturation	
(a) Annealing $\rightarrow$ (b) Denaturation $\rightarrow$ (c) Annealing (d) Extension $\rightarrow$	
Extension $\rightarrow$ Annealing $\rightarrow$ Denaturation $\rightarrow$ Annealing $\rightarrow$	
Denaturation Extension Extension Denaturation	
among the following will not serve as store house of stem cell.	
(a) Blood (b) Bone marrow (c) Amniotic fluid (d) Placenta	
31) PCR was developed by	
(a) Engvall (b) Kary Mullis (c) Anderson (d) Ian wilmut	
is an example for DNA vaccine	
(a) MMR (b) Hepatitis B (c) BCG (d) oral polio	
was the first GI tagged product in India	
(a) Kancheepuram (b) Darjeeling (c) Thanjavur (d) Temple jewellery of	
silk tea paintings Nagarcoil	

s a autosomal recessive metabolic
(a) Haemophilia (b) Cystic fibrosis (c) SCID (d) Colour blindness
35) Genetic engineering has been successfully used for producing
(a) Transgenic mice for (b) Transgenic models (c) Transgenic cow (d) Animals like
testing safety of polio for studying new Rosie which produces bulls- for farm work
vaccine before used in treatments for certain high fat milk for as they have
humans. cardiac diseases. making ghee. superpower.
36) Some of the characteristics of Bt cotton are  (a) Long fibre (b) Medium yield, long (c) High yields and production of (d) High yield
and resistance to fiber and resistance to toxic protein crystals which kill and resistance to
aphids beetle pests dipteran pests. bollworms
37) Bacillus thuringiensis forms protein crystals which contain insecticidal protein. This protein
(a) Binds with epithelial (b) Is coded by (c) Is activated by (d) Does not kill the
cells of midgut of the insect several genes acid pH of the carrier bacterium which is
pest ultimately killing it. including the gene foregut of the insect itself resistant to this toxin
cry. pest.
38) Read the following four statements (A to D) about certain mistakes in two of them.
a) The first transgenic buffalo, Rosie produced milk which was human alpha-
lactalbumin enriched.
b) Restriction enzymes are used in isolation of DNA from other macromolecules.
c) Downstream processing is one of the steps of rDNA technology
d) Disarmed pathogen vectors are also used in transfer of rDNA into the host.
Which of the two statements have mistakes?
(a) B and C (b) C and D (c) A and C (d) A and B
39) The colonies of recombinant bacteria appear white in contrast to blue colonies of
nonrecombinant bacteria because of  (a) Non (b) Insertional (c) Insertional (d) Insertional (d) Insertional (e) Insertional (f) Insertional (f
(a) Non- (b) Insertional (c) Insertional (d) Inactivation of recombinant inactivation of $\alpha$ - inactivation of $\alpha$ - glycosidase enzyme in
bacteria containing galactosidase in non- galactosidase in recombinant bacteria
β galactosidase. recombinant bacteria. recombinant bacteria.
40) Which body of the Government of India regulates GM research and safety of introducing GM
organism for public services?
(a) Bio-safety (b) Indian Council of (c) Genetic engineering (d) Research committee on
committee agricultural research approval committee Genetic manipulation
41) In genetic engineering, a DNS segment (gene) of interest is transferred to the host cell through
a vector. Consider the following four agents (A to D) in this regard and select correct option
about which one or more of these can be used as vector/vectors.
A) A bacterium
B) Plasmid
C) Plasmodium
D) Bacteriophage
(a) (A), (B) and (D) only (b) (A) only (c) (A) and (C) only (d) (B) and (D) only
42) Which one of the following palindromic base sequences in DNA can be easily cut at about the
middle by some particular restriction enzyme?
(a) 5' - CGTTCG - 3' 3' (b) 5'-GATATG -3' 3' (c) 5' -GAATTC - 3' 3' (d) 5' -CACGTA -3' 3' -ATGGTA -5' - CTACTA -5' - CTTAAG-5' - CTCAGT -5'
43) Restriction endonucleases are enzymes which

	(a) Make cuts at specific positions within the DNA	(b) Recognize a specific nucleotide sequence for binding of DNA ligase.	(c) Restrict the action of the enzymed DNA polymerase.	(d) Remove e nucleotides from the ends of the DNA
11	molecule.	1 1 1 1		molecule.
44	(a) Addition of preservatives of the	ors have been designed for (b) Purification(c) Ensuri of the product conditions vessel		Availability of oxygen coughout the process
15	product		What does last most in	it atom d fam?
	(a) Coelom	endonuclease called EcoRI. (b) Coenzyme	(c) Coli	(d) Colon
46		e regarding DNA polymera		
	(a) It is used to ligate in DNA in recipient cells.	introduced (b) It serves as . selectable marke	` '	(d) It remains active at high temperature.
47	-	icro-particles coated with D		•
	made up of	1		
	(a) Silver or Platinum	(b) Platinum or Zinc (c)	Silicon or Platinum	(d) Gold or Tungsten
48	) Statement 1: Human I	nsulin is a polypeptide		
		posed of 52 amino acids		
	(a) Statement 1 is true	. (b) Satement 1 is false.	(c) Both statements	(d) Both statements 1
	Statement 2 is false	Statement 2 is true	1 and 2 are true	and 2 are false.
49		as the first transgenic goat.		
		nriched with human protein		
	(a) Statement 1 is true			
<b>-</b> ^	Statement 2 is false	Statement 2 is true	and 2 are true	and 2 are false
50		inant Hepatitis B vaccine is		
		ned by cloning HB antigen		(1) D (1) (1)
	· 1	(b) Satement 1 is false.		• •
<b>5</b> 1 '		Statement 2 is tru		
<i>)</i> 1		iciency was the first dis <mark>ease</mark> n autosomal recessive metal		ıpy.
		. (b) Satement 1 is false.		1(d) Roth statements 1
	` '		and 2 are true	and 2 are false
52		ed recombinant vaccines are		<u>-</u>
	Statement 2: Polio is a		o ii vo vaccinos.	
	•	. (b) Satement 1 is false.	(c) Both statements	1(d) Both statements 1
		Statement 2 is true		
53	) Assertion (A): Interfer	rons are used to treat herpes	zoster.	
	Reason (R): Interferons	s are antiviral protein		
	(a) R (b) Both A	A and R are (c) Both A ar	nd R are (d) A and I	R are correct. R does not
	explains A incorrect.	incorrect.	explains A.	
54	) Assertion (A): PCR is	a amplification technique u	used in biotechnology	
	` /	R multiple copies of DNA c	•	
		A and R are (c) A is corre		R are correct. R does not
	explains A. incorrect		explains A	
33		n is composed of		(4) (0
56	(a) 70			(d) 60
ال	ine gene for the form	ation of factor VIII is locate	cu III	

.1	.1		
	(b) 12 <sup>th</sup> Chromosome	` '	(d) Y-chromosome
57) The genetic defect in			
(a) Polycythemia	(b) Anaemia (	c) Thalassemia	(d) Haemophilia
58) Which is the first synt	thetic vaccine produced?		
(a) Polio Vaccine (	b) Hepatitis B Vaccine	(c) BCG Vaccine	(d) MMR Vaccine
59) Identify the incorrect	statement.		
(i) The first clinical ge	ne therapy was given by	French Anderson.	
(ii) For a four year old	boy with ADA deficience	cy.	
•	al dominant metabolic d	· ·	
` '	ve non-functioning B -ly		
(a) i and iv only	(b) ii, iii and iv		(d) all the above
60) Identify the correct sta			
•	bility of single cell to pro	oduce a whole organism	1.
	to ability of stem cell w		
germ layers.	to donney of stem cen w	till apotential to differen	itiate into any kina or
•	to ability of stem cell to	differentiate into one co	all type
· / • -	rs to stem cells to differe b) ii and iv (c)		
			ll the above
61) Identify those proper	=		(d) Plasking
` '	(b) Detection $\rightarrow$ Read		
$\rightarrow$ Read out	out→ Coating → Blocking	→ Blocking	
		→ Blocking	→ Coating
62) PCR technique was de		(a) Vary Mullia	(d) Wilmont
(a) Eva Engvall	` ' ' \	(c) Kary Mullis	(d) Wilmut
63) Arrange the steps of F		(a) Defendencian	(d) Danatanatian
	(b) Renaturation,		
	Denaturation, Primer extension	Renaturati	Renaturation, Primer extension
		Kenaturati	CATCHSION
64) The first cloned organ		(a) Chaon	(d) Dia
(a) Goat		(c) Sheep	(d) Pig
65) The first transgenic cl			(4) I <sub>2-1</sub>
		(c) Sameera	(d) Joel
66) In cloning process of		•	y Ian Wilmut and
<del>-</del>	n one successful Dolly w	-	(1) 207
(a) 267	(b) 277	(c) 28/	(d) 307
67) The term Biotechnolo		-	(1)
	(b) Sameera	(c) Joel	(d) Rosie
68) Name the scientists w			
	an Lindemann (b)	Гhalassemia (c) Haen	nophilia (d) Anaemia
69) The word 'niche' was	·	_	
	(b) Van't Hoff	` /	
70) Van't Hoffs rule descr	ibes the impact of		
(a) Light (b)	) Temperature	(c) Water	(d) Soil
71) "Birds and mammals	attain greater body size i	n colder regions than w	armer regions." - Choose
the correct option.			$\mathcal{C}$
	and the second s		$\mathcal{S}$
(a) Bergmann's rule	(b) Jordon's rule (	_	-

(a) Thick fur	(b) camouflage	(c) Sharp canines	(d) Migration
73) Identify the respo	onse under which 'Osmotic	balance' can be classif	ied.
(a) Suspend	(b) Regulate	(c) Migrate	(d) Conform
74) Type of response	in hibernation and aestiva	tion.	
(a) Suspend	(b) Regulate	(c) Migrate	(d) Conform
75) Animals destroye	ed at the feet of elephants i	s an example of	
(a) Mutualism	(b) Amensalism	(c) Commensalism	(d) parasitism
76) Birds sitting on c	ows to eat insects is an exa	ample of	· · · -
(a) Competition	(b) Mutualism	(c) Commensalism	(d) Amensalism
77) Nuts are eaten by	birds and squirrels. This i	is an example of an inte	raction called
	_	_	
(a) Commensalis	m (b) Mutualism	(c) Amensalism	(d) Competition
78) 1000 fish in the v	volume of water in the pon	d indicates	
(a) Relative abun	dance (b) Ecological der	nsity (c) Crude densit	ty (d) Population density
	e of response classifiedund		
(a) Suspend	(b) Migrate	(c) Conform	(d) Regulate
	e following is most appropr		
	(b) Amensalism is a	(c) Predator is an	(d) Parasite is an organism
_	relationship in which one		which always lives inside
-	species is benefited		the body of other organism
another organism.	whereas the other is unaffected.	other organisms for food.	and may kill it.
81) Study the four ste	atements (1 to 4) given bel		correct ones out of them
	deer and a sparrow feeding		
consumers.	deer and a sparrow recum	g on gram are ecologica	any similar in being
	h Pisaster helps in maintai	ning species diversity of	of some invertebrates
	ately lead to the extinction		or some invertebrates.
·	chemicals such as nicotine,	* A A TA A * B	ts is disordered
The two correct st		stryclimic by the plant	is is disordered.
	(b) (3) and (4)	(c) (1) and (4)	(d) (1) and (2)
			in the plain dwellers when
	altitudes (3500 m or more	,	in the plant aweners when
1) Increase in red		·)·	
	blood cell production		
3) Increased breat			
4) Increase in thro			
*	(b) (3) and (4)	(c) (1) and (4)	(d) (1) and (2)
			et pair of them as adaptation
to environment in	•	,	1
The conditions:			
A) Burrowing in s	soil to escape high tempera	ature.	
·	pidly from the body during		
, -	nen temperature is low		
· · · · · · · · · · · · · · · · · · ·	y due to thick fatty dermis		
(a) (A) and (C)	= = = = = = = = = = = = = = = = = = = =	(c) (A) and (B)	(d) (C) and (D)
84) People who have	migrated from the planes	to an area adjoining Ro	htang Pass about six months
back	_	-	

(a) Have more RBC's (b)	Are not	(c) Suffe	r from altitude	(d) Have	the usual RBC
					then haemoglobin
	•		s like nausea,		_
	tball	fatigue, e		affinity to	
85) A biologist studies the popu	lation of eats	in a barn.	He found that	the averag	ge natality was 250
average mortality is 240, imr	nigration is 2	20 and emig	gration to be 30	). The in	population is
(a) 10 (b) 15		(c) 05	(	d) Zero	
86) An association of individual	s of different	species liv	ing in the sam	e habitat	and having
functional interaction is:		_	_		_
(a) Biotic community	(b) Ecosyste	em (c)	Population	(d) Eco	logical niche
87) Gause's principle of compet	tive exclusion	n states tha	at:		
(a) More abundant (b)	Competition	for the (	e) No two spe	cies can	(d) Larger
species will exclude the sam	e resources e	excludes o	ccupy the sam	e niche	organisms
	_				exclude smaller
through competition food	l preferences	li	miting resource	es	ones through
					competition
88) When does the growth rate of	of a population	on followin	g the logistic r	nodel equ	al zero? The
logistic model is given as dN	•				
(a) When N/K is (b) When					
exactly one capacity of			quals zero	greater th	nan birth rate
89) Identify the proper sequence		-			
(a) Species (b) I	opulation	(c) I	$Biome \to Spec$	cies (d) (	Community
$\rightarrow$ Population $\rightarrow$ C			-		
-	pecies $\rightarrow$ bio	ome $\rightarrow P$	opulation	$\longrightarrow$ E	$Siome \longrightarrow Species$
→ biome					
90) Functional status of an organ		•		1) D 1	.•
(a) Biome (b) Nic		(c) Specie	es (	d) Popula	ition
91) Pick out the eurythermal org		( ) TT'		(1) T '	1
(a) Fish (b) Frog		(c) Tiger		(d) Lizaro	
92) Locomotory speed of an org	anısm chang	es due to li	ght. This phen	omenon 1	s referred as
(1) PI	. 1		21	(1)	. D1
	otokinesis	(c) I	Phototropism	(a)	Phototaxis
93) Identify the incorrect statem		( )	<b>33</b> 7 4 • 1	· (1) W	71 C
	Vater has less	` ′		` '	hen freezes water
	ce tension	tna	n air	contra	icts
94) Assertion (A): Snake is a ste			<b>a</b>		
Reason (R): Organism can to		-			D (1 A 1 D
(a) Both A and R are correct	· '	orrect R is	` '		Both A and R are
R explain A	incorrect		explain A	inco	orrect
95) Assertion (A): Diapause is c					
Reason (R): Animals become		_		(4)	
(a) Both A and R are correct		orrect R is	` '		Both A and R are
R explain A	incorrect		explain A		orrect
96) Assertion (A): Movement of				ind back i	s called migration.
Reason (R): Eel is an example		_			D 4 4 4 5
(a) Both A and R are correct		orrect R is	` '		Both A and R are
R explain A	incorrect		explain A	inco	orrect

9/) Which is not a feati	are of Tundra?			
(a) Large population oscillation	` '	_	` '	e (d) Extremely hot climate
98) Pick out the correct	statement regarding	g K-selected spe	cies	
(a) Produce many				(d) Long life
	adulthood			
99) Maximum reproduct as	tive capacity of an	organism under i	favorable condit	ion is referred to
(a) Carrying capaci	ty (b) Bioti	c potential	(c) Natality	(d) Fecundity
100) As altitude increas	• • • • • • • • • • • • • • • • • • • •	1	•	
(a) O <sub>2</sub> density		(c) Ten	nnerature	(d) Snowing
increases				decreases
				uccicases
101) There are	_ mega biodiversity	y countries in the		(1) 10
(a) 15		* *		(d) 10
102) The Species-Area	relationship was giv	ven by	C +	
(a) Walter Rosen	(b) Hum	boldt (	(c) Wilson	(d) Darwin
103) The grizzled squir				A A/
(a) Semi-Arid zone	(b) Indian De	sert (c) Wes	stern Ghats	(d) Eastern Ghats
104) is a	biographical gatewa	ay for <mark>much of</mark> I	ndia's flora and	fauna.
(a) North East India	(b) Coastal Reg	ion (c) Trans	Himalayan regio	on (d) Sunderbans
105) is	not a threat to biod	liversity.		
(a) Fragmentation	(b) Habitat los	(c) Spec	ies diversity	(d) Extinction
106) is n			al	
(a) Amazon sailfin	catfish (b) Mealy	Bug (c) Narco	ndam horn bills	(d) Achatina fulica
107) Death of	population	is attributed to th	ne medicine Dicl	ofenac.
(a) Sparrow	(b) Squirrel			(d) deer
108) is not a		1.03		
(a) Sunderbans	(b) Pichavaram	(c) Hima	layas (d)	Western Ghats
109) IUCN has its head	quarters in			
(a) New York	(b) New Delhi	(c) Colu	mbia (d	) Switzerland
110) The red data book				(4)
	(b) ENVIS	(c) IU	JCN	(d) NBA
111) Red list has	categorie	es.		
(a) 7	(b) 6	(c) 8	(d)	12
112) At present there are	e tige	er reserves in the	country	
(a) 9	(b) 32	(c) 47		1) 26
	` '	· /	(•	1) 20
113) Project tiger was f				(1) 2001
(a) 1973	<b>\</b>	(c) 1999		(d) 2001
114) Mundanthurai wil				
(a) Coimbatore	(b) Tirunelveli	(c) Kanchee	puram (d	l) Nagapattinam
115) Kaziranga in Assa	m refers to a			
(a) Protected areas		nctuary (c)	National park	(d) both a and c
116) The headquarters	* *	• , ,	-	` '
(a) New Delhi		$ \begin{array}{ccc} \text{n} & \text{(c)} \\ \end{array} $	·	
` ′	` ′	` '		(d) Ixolkata
117) Select the correct		•	£ (1) TT1 1	
· · ·		* *	* *	esert areas of Rajasthar
planting of Bt 1	nave a very high	biodiversity is ju	ust a and Gujara	at have a very high

cotton has no	<i>8</i>	<u> </u>	level of desert animal species as
adverse effect on		developed countries.	well as numerous rare animals.
biodiversity:	endemism		
118) Sacred groves ar			
(a) Preventing (b)	year-round flow o	of (c) Conserving rare	` ' '
soil erosion w	ater in rivers	threatened species	environmental awareness
	<u>=</u>	world is represented by	
(a) Fungi	(b) Mosses	· / C	(d) Lichens
	_	or ex situ plant conserva	
· · · · · ·	` '	s (c) Shifting cultivat	
	<u> </u>	have correct combination	
(a) In situ	* *	servation: (c) In situ	(d) In situ
	· -	on conservation	
Park	Ex situ conserv		culture
	on: Wildlife Sancti	•	servation: Ex situ conservation:
Botanical Garden		National par	
• •	n of gametes of threa	itened species in viable	and fertile condition can be
referred to as			
` '	(b) Advanced ex	situ (c) In situ	(d) In situ cryo-
conservation of	conservation of	conservation	by conservation of
biodiversity	biodiversity	sacred groves	s biodiversity
123) The species conf	fined to a particular r	egion and not found els	sewhere is termed as
(a) Alien	(b) Endemic	(c) Rare	(d) Keystone
124) Which of the fol	lowing National Parl	ks is home to the famou	us musk deer or hangal?
(a) Bandhavgarh	(b) Eaglenest	Wildlife (c) Dachig	am National (d) Keibul Lamjao
National Park, Ma	dhya Sanctuary, Aru	ınachal Park, Jamm	u & National Park,
Pradesh	Pradesh	Kashmir	Manipur
125) Which is not an	indice of species div	ersity?	
(a) Alpha diversity	y (b) Beta divers	sity (c) Delta divers	sity (d) Gamma diversity
126) Total number of	mega biodiversity co	ountries in the world is	
(a) Twelve	•	(c) Seventeen	(d) Nineteen
127) How many numb	per of biogeographic	zones are there in Indi	a?
(a) Twelve	(b) Seventeen		
128) The most import	` '		
-	-	•	gradient (d) Equatorial gradient
in diversity	in diversity	diversity	in diversity
· · · · · · · · · · · · · · · · · · ·		orrect regarding increase	•
			or (d) Latitude = Longitude
130) Select the proper	sequence indicating	the increasing order of	f biodiversity.
(a) Polar, Tempera	ate (b) Tropics, Ter	nperate (c) Temperate	e, Tropic (d) Polar, Tropic and
and Polar	and Polar	and Polar	Temperate
131) Select the correc	t linear equation des	cribing the species - are	ea relationship.
	<del>-</del>		$g C + Z$ (d) $log C = log S \pm Z$
log A	log C	log A	log A
132) Wild ass is ender	mic to	_	
(a) Western Ghats	(b) Deccan Pe	eninsula (c) Him	alayas (d) Indian desert
133) Which is consider	ered as the Biogeogra	aphical Gateway of Ind	lia?
(a) Himalayas	(b) Andaman & Nic	cober (c) North	- East India (d) Mumbai

134) Species introduced deliberately in an area are referred as	
(a) Endemic species (b) Vulnerable species (c) Exotic species (d) Extinct species	es
135) Tilapia fish (Oreoehromis mosambieus) is exotic breed from	
(a) Mexico (b) South Africa (c) Canada (d) Central America	
136) Mention the correct number of biodiversity hotspots identified throughout the world.	
(a) 29 (b) 16 (c) 34 (d) 46	
137) Which is not an accepted biodiversity hotspots of India?	
(a) Indian Himalayas (b) Western Ghats (c) Indo-Burma (d) Deccan Plateau	l
138) A species is considered as extinct	
(a) When its member (b) When its member (c) When none of its (d) When none of its	S
is confined to a is maintained in non-members is alive in members alive anywl	here
particular area native area native area in the world	
139) The concept of Red list was noted in	
(a) 1953 (b) 1963 (c) 1973 (d) 2003	
140) Statement 1: Biodiversity is the assemblage of different life form.	
Statement 2: The term biodiversity was introduced by Edward Wilson.	
(a) Statement 1 is correct, (b) Statement 1 is (c) Both the	
statement 2 in incorrect incorrect, statement 2 in statements are statements are	
correct correct incorrect	
141) Statement 1: India is the seventh largest country in the world in terms of area.	
Statement 2: It includes ten biogeographic areas.	
(a) Statement 1 is correct, (b) Statement 1 is (c) Both the	
statement 2 in incorrect incorrect, statement 2 in statements are statements are	
correct correct	
142) Statement 1: Western Ghats extend from South Gujarat to Karnataka.	
Statement 2: Wild ass is an endemic species of Western Ghats	
(a) Statement 1 is correct, (b) Statement 1 is (c) Both the	
statement 2 in incorrect incorrect, statement 2 in statements are statements are	
correct correct, incorrect	
143) Statement 1: Exotic species are the non-native organism.	
Statement 2: Sailfin catfish is an exotic species to India	
(a) Statement 1 is correct, (b) Statement 1 is (c) Both the (d) Both the	
statement 2 in incorrect incorrect, statement 2 in statements are statements are	
correct correct incorrect	
is an example for a non persistant pollutant.	
(a) DDT (b) Vegetable waste (c) Plastic (d) Mercury	
145) Oil spills can lead to	
(a) increase of BOD (b) decrease of BOD (c) No change in BOD (d) None of the about	ove
146) The tolerable level of sound is	
(a) 140 db (b) 120 db (c) 100 db (d) 2220 db	
147) Incineration is the best method to dispose	
(a) Agricultural waste (b) Sewage (c) Medical waste (d) Oil spills	
148) The 2018 UN climate change conference was held in	
(a) Rwanda (b) New York (c) Russia (d) Poland	
149) Ozone is found in the layer of the atmosphere.	
(a) Ionosphere (b) Thermosphere (c) Stratosphere (d) Mesosphere	
is not a green house gas.	

(a) $CO_2$	(b) Methane	(c) PAN	(d) Nitrous oxide
151) PCB is a major	or component of		
(a) e-waste	_	(c) sewa	ge (d) Plastics
152) Kyoto protoco	ol was held in Japan in		
(a) 1995	(b) 1997	(c) 2012	(d) 2017
153) DB is a stand	ard abbreviation used f	` '	pression of
	of bacteria in (b) A pa		
a medium	pollutant	` '	* /
154) Which one of	*		ng acronyms is correct?
(a)	(b)	(c)	(d)
United	Environment	tal International	Union for International
UNEP Nations	<b>EPA</b> Pollution	<b>IUCN</b> Conservation	of Nature and IPCC Penal for
Environr		Natural Reso	ources climate
Policy			Change
155) In an area, wh	nere DDT had been. use	d extensively the pop	ulation of birds declined
significantly be			
(a) Birds		e (c) Cobras were fe	eding (d) Many of the. birds
stopped laying	area got eradicated		
eggs	Č		
	the following is a wron	g statement?	
	forests (b) Ozone in up		ouse (d) Eutrophication is a
have been lost i		harmful effect is nat	
tropical areas.	to animals.	phenomeno	*
157) Measuring Bi	ochemical Oxygen Den	nand (BOD) is a meth	od used for
_			ctivity of (d) Working out the
` '	nic efficiency of oil	` '	
matter in sewag	ge driven automobile	in producing curd on	a about their capacity to
water.	engines.	commercial scales	carry oxygen
158) Kyoto Protoc	ol was endorsed at		
(a) CoP - 3	(b) CoP - 5	(c) CoP - 6	(d) CoP - 4
159) A scrubber in	the exhaust of a chemic	cal industrial plant ren	noves
	(b) Particulate matter	•	
	. size 5 micrometer or a		size 2.5 micrometer or less
		methane	
160) Rachel Carso	n's famous book 'Silent	Spring' is related to	
(a) Pesticide	(b) Noise	(c) Population	(d) Ecosystem management
pollution	Pollution	explosion	, ,
161) Which of the	following is not one of	*	ks associated with greater UV
	th the atmosphere due to	•	_
(a) Increased sl	•		
cancer	system	eyes	cancer
	•	•	rophic levels is known as
			ical cycling (d) Biomagnifications
* *	n inflow of domestic se	` '	
		•	eased production (d) Death of fish
	o algal of aquatic food	• • • • • • • • • • • • • • • • • • • •	o biodegradable due to lack of
bloom	organisms	nutrients	oxygen
	$\boldsymbol{\omega}$		, 0

164) A lake which is r	ich in organic waste may	result in	
(a) Drying of the	(b) Increased population	(c) Mortality of	(d) Increases population of
lake due to algal	of fish due to lots of	fish due to lack of	aquatic organisms due to
bloom	nutrients	oxygen	minerals
165) The highest DDT	concentration in aquatic	food chain shall occu	ır in
(a) Seagull	(b) Crab (c	c) Cell (d) P	hytoplankto
166) The gaseous enve	elope which surrounds the	e Earth is called as	
(a) Stratosphere	(b) Atmosphere	(c) Troposphere	(d) Ozonosphere
167) are t	he major causes of CO po	olution in large cities	and towns.
(a) Fossil fuels	(b) Ocean (c)	Deforestation	(d) Automobiles
168)and	are the major cau	se for acid rain.	
(a) Sulphur di oxid	le and (b) Hydrogen pero	oxide (c) Hydrochlor	ride (d) Sulphur dioxide
Hydrogen peroxide	and Sulphuric acid	and sulphur dio	xide and Nitrogen .oxide
169) What is the name	of the app published by	Central Pollution Cor	ntrol Board that provides
updates onAQI		(G)	
(a) Hamear	(b) Jhoan	(c) Sameer	(d) Industan
170) PAN stands for_			
(a) Peroxyacetic na	trogen. (b) Perchloro ace	etate (c) Peroxyacety	l nitrate (d) Peractyl nitroxide
171) Average human o	consumption of oxygen pe	er day is	
(a) 280 L	(b) 550 L	(c) 620 L	(d) 730 L
172) The intensity of r	noise is measured in		
(a) Dobson	(b) Hertz	c) Decibel	(d) Frequency
173) According to noi	se pollution rules 2000, tl	ne permissible level o	f noise in commercial area is
during d	ay andduring r	nitght	
(a) 55 db, 65 db	(b) 65 db, 55 db	(c) 70 db, 60 db	(d) 75 db, 65 db
174) Which is not a pl	nysical method of waste v	vater treatment.	
(i) Floatation		0.9	
(ii) Filtration			
(iii) Phydro remedi	ation		
(iv) Oxidation			
(a) i and iii	(b) ii and iv	(c) i and ii	(d) iii and iv
175) Which is not a m	ethod of disposal of radio	pactive waste.	
	=		reuse (d) Limit generation
176) E-wastes are basi	cally		
(a) Poly iodinated	(b) Poly chlorinated	d (c) Poly hydrox	y (d) Poly acetyl
biphenyl based	biphenyl based	biphenyl based	biphenyl based
compounds	compounds	compounds	compounds
177) Identify the corre	ect statement indicating 41	Rs of treating water.	
(a) Regenerate,		, (c) Redeem, Ref	use, (d) Refuse, Reduce,
Reduce, Reuse and	Rejenuvate and Reu	se Rejenuvate and R	educe Rescue and Recycle.
Recycle			
	n Sustainable developme		· · · · · · · · · · · · · · · · · · ·
(a) Ruanda	(b) Rio de Janeiro	(c) Geneva	(d) Stockholm
179) The molecular fo		_	
(a) 02	(b) 04	(c) 03	(d) 07
180) World Ozone Da			
(a) September 16 <sup>th</sup>	(b) October 12 <sup>th</sup>	(c) December 1	(d) August 18 <sup>th</sup>

181) Identify the incorrect statement.
(i) EcoSan toilets is a sustainable way for handling human excreta by using dry composting
toilets
(ii) It reduces waste water generation
(Ui) It is based on recovery and recycling of nutrients from excreta
(iv) EcoSan toilets are used in several parts of India and Srilanka.
(a) i and ii only (b) iii and iv only (c) all the above (d) none of the above
182) What is the name of the action plan for sustainable development framed in Rio conference in 1992?
(a) Action 21 (b) Declaration 21 (c) Protocol 21 (d) Agenda 21
183) Eutrophication is a result of
(a) Agricultural and sewage waste (b) Vehicle emission (c) Pesticides (d) Industrial effluent
184) BOD stands for
(a) Biological Oxidation (b) Biotic Oxygen (c) Biological (d) Biochemical
Demand Deficient Oxygen Deficit Oxidation Deficit
185) Stratosphere is mainly depleted by
(a) Excess CO (b) CFC's (c) Ozone (d) Excess CO2
186) Treatment of sewage involves
(a) Floatation, Filtration and (b) Aerating it for (c) Removal of (d) All of
Sedimentation of suspended particles bacterial action nitrates and phosphates the above
187) Assertion (A): Ozone layer protects the UV rays entering the Earth.
Reason (R): UV rays may cause melanoma
(a) A is right R is (b) A is wrong R is right(c) Both A and Rare correct(d) R explains A
wrong
188) Assertion (A): Evolution.of Greenhouse gases leads to Global warming
Reason (R): The energy released by the greenhouse gases move away from the atmospheric
(a) A is right R is (b) A is wrong R is (c) Both A ana R are (d) R explains A
wrong right correct
189) Statement (1): Incomplete combination of fossil fuels release CO
Statement (2): CO is a GHG
(a) Statement 1 is true, (b) Statement 1 is false, (c) Both Statements (d) Both statements 1
statement 2 is false statement 2 is true 1 and 2 are true and 2 are false
190) Statement (1): The intensity of noise is measured in dobson (dB) unit.
Statement (2): Noise provides immense bliss.
(a) Statement 1 is true, (b) Statement 1 is false, (c) Both Statements (d) Both statements 1
statement 2 is false statement 2 is true 1 and 2 are tru and 2 are false
191) Lysozyme is an example of
(a) Anatomical barrier(b) Physiological barrier(c) Phagocytic barrier(d) Inflammatory barrier
is not a feature of acquired immunity.
(a) diversity (b) recognition of self (c) non-specific (d) memory
193) Passive immunity does not exhibit this characteristic.
(a) No (b) Very effective in (c) Immediate (d) No active host
memory protection Immunity participation
194) is not a secondary lymphoid organ.
(a) Malt (b) Spleen (c) Bursa of fabricius (d) Adenoids
195) This statement about the thymus which is not true.
(a) It is located above (b) It has numerous (c) The thymus begins to atrophy (d) It contains

the lungs	lobules	by early teens	T cells	
196) Enhanced attachment is also known as				
		(c) agglutination	(d) neutralisation	
197) Lymph nodes are seen in the				
(a) Toes	(b) heart	(c) Neck	(d) Palm	
198) The oral polio vaccine was developed by				
			(d) Calmette and Guerin	
199) Choose the wron		• •		
	<b>O</b> 1	The B lymphocytes lea	eve the (d) B Cells can	
			ity form memory cells.	
200) The first disease for which vaccine was prepared is				
		(c) Cholera	(d) Small pox	
201) Peyer's patches occur in				
(a) Nasal passage	(b) Heart (c)	Small intestine (c	l) Roof of the mouth	
202) Maerophages are formed from				
	(b) RBC	(c) Monoeytes	(d) Platelets	
203) is a seco	nd generation vaccine.			
(a) Polio	(b) MMR	(c) Hepatitis B	(d) DPT	
204) is an example of killed vaccine.				
(a) MMR	(b) Measles	(c) Salk's Polio	(d) Vanicella	
205) is not a auto immune disease.				
(a) Rheumatoid ar	thritis (b) Multiple	esclerosis (c) Allerg	y (d) Addison's disease	
206) is a not	a secondary lymphoid	organ.		
(a) Spleen	(b) Adenoid	(c) Bone marrow	(d) MALT	
	ndary ly <mark>mphoid</mark> organ f			
	(b) Tonsils		(d) Spleen	
208) H chain of immu	noglobulin hasa	aminoacids.		
(a) 214	(b) 500	(c) 475	(d) 450	
209) The may	disappear by adulthoo	d.		
(a) Tonsils	(b) Peyer's patches	(c) Adenoid	s (d) Spleen	
210) is the first one to encounter the antigen that enters tissue spaces.				
(a) Spleen	(b) Lymph node	(c) Bone marrow	(d) GALT	