

RAVI MATHS TUITION CENTRE, WHATSAPP - 8056206308

BIOLOGY TEST 62 MOLECULAR BASIS OF Time: 125 Mins Marks: 476 **INHERITANCE 1** 1. Complete linkage is found in a) Birds b) Snakes c) Female- Drosophila d) Male- Drosophila 2. A nucleoside differs from a nucleotide is not having a) Phosphate b) Sugar c) Phosphate & sugar d) Nitrogen base 3. In E.coli during lactose metabolism repressor/binds to a) promoter gene b) regulator gene c) operator gene d) structural gene 4. Which one of the following pairs of codons is correctly matched with their function or the signal for the particular amino acid? a) GUU GUU -Alanine b) UAGUGA-Stop c) AUG ACG-Start/Methionine d) UUA,UCA-Leucine 5. Which out of the following statements is incorrect? a) Genetic code is ambiguous. b) Genetic code is degenerate. c) Genetic code is universal. d) Genetic code is non-overlapping. 6. To initiate translation, the mRNA first binds to a) the smaller ribosomal sub-unit b) the larger ribosomal sub-unit c) the whole ribosome d) no such specificity exists. 7. If number of aminoacids in a polypeptide chain is 50, what will be the number of nucleotides in its mRNA? b) 100 c) 150 d) 200 8. DNA is a polymer of nucleotides which are linked to each other by 3' -5' phosphodiester bond. To prevent polymerisation of nucleotides, which of the following modifications would you choose? a) Replace purines with pyrimidines. b) Remove/Replace 3' OH group in deoxyribose c) Remove/Replace 2' OH group with some other group in deoxyribose d) Both (b) and (c). 9. Watson and Crick (1953) proposed DNA double helix model and won the Nobel Prize; their model of DNA was (i) X-ray diffraction studies of DNA done by Wilkins and Franklin (ii) Chargaff's base equivalence rule (iii) Griffith's transformation experiment (iv) Meselson and Stahl's experiment. a) (i), (ii) and (iv) b) (i) and (ii) c) (iii) and (iv) d) (i), (ii), (iii) and (iv) 10. Which antibiotic inhibits interaction between RNA and mRNA during bacterial protein synthesis? a) Neomycin b) Streptomycin c) Tetracycline d) Erythromycin 11. Which of the following is required as inducers) for the expression of lac operon? a) Glucose b) Galactose c) Lactose d) Lactose and galactose 12. Double helix model of DNA which was proposed by watson and crick was of a) C-DNA b) B-DNA c) D-DNA d) Z-DNA

13. During translation, activated amino acids get linked to tRNA. This process is commonly called as a) charging of tRNA b) discharging of tRNA c) aminoacylation of tRNA d) both (a) and (c).

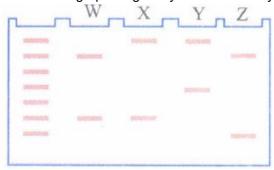
14. International Human Genome Project began in b) 1996 c) 2000

d) 2001

a) 1990

15. Degeneration of a genetic code is attributed to the a) third member of a codon b) first member of a codon c) second member of a codon d) entire codon
16. In his classic experiments on pea plants, Mend did not use:a) Flower positionb) Seed colourc) Pod lengthd) Seed shape
17. Sickle cell anemia results from a single base substitution in a gene, thus it is an example of a) point mutation b) frame-shift mutation c) silent mutation d) both (a) and (b).
18. If both parents are carriers for thalassemia, which is an autosomal recessive disorder, what is the chance of pregnancy resulting in an affected child? a) 100% b) No chance c) 50% d) 25%
19. Which of the following are the functions of RNA?a) It is a carrier of genetic information from DNA to ribosomes synthesising polypeptides.b) It carries amino acids to ribosomes c) It is a constituent component of ribosomes d) All of the above
20. When flowers are unisexual then emasculation is done in: a) Female b) Male c) 1 & 2 both d) None of these
21. One turn of the helix in a B-form DNA is approximately a) 20nm b) 0.34nm c) 3.4nm d) 2nm
 22. The length of DNA molecule greatly exceeds the dimensions of the nucleus in eukaryotic cells. How is this DNA accommodated? a) deletion of non-essential genes b) super-coiling in nucleosomes c) DNase digestion d) through elimination of repititive DNA
23. Haemophilic gene does not transfer from: a) Haemophilic father to son b) Haemophilic mother to son c) Haemophilic father to daughter
d) Haemophilic mother to son & daughter
 24. Given below are the steps of protein synthesis. Arrange them in correct sequence and select the correct option. (i) Codon-anticodon reaction between mRNA and aminoacyl tRNA complex. (ii) Attachment of mRNA and smaller sub-unit of ribosome. (iii) Charging or aminoacylation of tRNA. (iv) Attachment of larger sub-unit of ribosome to the mRNA-tRNA_{Met} complex. (v) Linking of adjacent amino acids.
(vi) Formation of polypeptide chain a) (ii) \rightarrow (i) \rightarrow (iii) \rightarrow (v) \rightarrow (iv) \rightarrow (vi) b) (v) \rightarrow (ii) \rightarrow (i) \rightarrow (iii) \rightarrow (iv) \rightarrow (vi) c) (iii) \rightarrow (ii) \rightarrow (iv) \rightarrow (i) \rightarrow (v) \rightarrow (vi) d) (iii) \rightarrow (ii) \rightarrow (iv) \rightarrow (v) \rightarrow (vi)
25. Which is the most common mechanism of genetic variation in the population of sexually reproducing organism? a) Chromosomal aberrations b) Genetic drift c) Recombination d) Tranduction
26. Chemically, RNA is(i)reactive and(ii) stable as compared to DNA. a) (i) equally, (ii) equally b) (i) less, (ii) more c) (i) more, (ii) less d) (i) more, (ii) equally
27. Which one of following does not follow the central dogma of molecular bilogy?a) Chlamydomonasb) HIVc) Pead) Mucor
28. Double helix model of DNA a) Was given by Watson and Crick b) Suggests '3D' structure c) Was given for B-DNA d) All of these
29. Which statement is incorrect for lac operon?a) Repressor protein is the product of i-geneb) β-galactosidase is synthesized by lac Y
c) Repressor binds operator gene d) Lactose acts as inducer
30. DNA precipitation out of a mixture of biomolecules can be achieved by treatment with a) Chilled ethanol b) Methanol at room temperature c) Chilled chloroform d) Isopropanol
31. Which of the following bond is not related to nucleic acid: a) H-bond b) Ester bond c) Glycosidic bond d) Peptide bond

- 32. VNTR varies in size from
 - a) 0.1 to 2 bp b) 10 to 20 bp c) 0.1 to 20 kb d) 0.1 to 20 bp
- 33. Grey is dominant (G) over black (g). Which of the following will most probably give 50% black and 50% grey offspring?
 - a) $GG \times gg$ b) $Gg \times gg$ c) $GG \times Gg$ d) $gg \times gg$
- 34. The DNA fingerprinting analysis of four family members is shown below.



Study the band pattern obtained and assign each family member to W, X, Y and Z. Choose the correct option.

- a) W father X mother Y child Z paternal uncle b) W child X father Y mother Z maternal uncle
- c) W father X child Y mother Z paternal uncle d) W child X father Y maternal uncle Z mother
- 35. In DNA when AGCT occurs, their association is as per which of the following pair?
 - a) ACGT b) AGCT c) ATGC d) All of these
- 36. Which one of the following is the started codon?
 - a) AUG b) UGA c) UAA d) UAG
- 37. In the DNA molecule
 - a) the total amount of purine nucleotides and pyrimidine nucleotides is not always equal.
 - b) there are two strands which run parallel in the 5'->>3' direction.
 - c) the proportion of Adenine in relation to thymine varies with the organism.
 - d) there are two strands which run anti parallel one in 5' o 3' direction and other in 3' o 5'
- 38. During expression of an operon, RNA polymerase binds to
 - a) structural gene b) regulator gene c) operator d) promoter.
- 39. The year 2003 was celebrated as the 50th anniversary of discovery of
 - a) transposons by Barbara Mc Clintock b) structure of DNA by Watson and Crick
 - c) Mendel's laws of inheritance d) biotechnology by Kary Mullis.
- 40. Functioning of structural genes is controlled by
 - a) Operator b) Promoter c) Ligase d) Regulator gene
- 41. In E. coli, the lac operon gets switched on when
 - a) lactose is present and it binds to the repressor b) repressor binds to operator
 - c) RNA polymerase binds to the operator d) lactose is present and it binds to RNA polymerase
- 42. Select the correct statement from the ones given below with respect to dihybrid cross:
 - a) Genes loosely linked on the same chromosome show similar recombinatios as the tightly linked ones
 - b) Tightly linked genes on the same chromosome show very few recombinations
 - c) Tightly linked genes on the same chromosome show higher recombination
 - d) Genes far apart on the same chromosome show very few recombinations
- 43. What is the first step in the Southern Blot technique
 - a) Denaturation of DNA on the gel for hybridization with specific probe
 - b) Production of a group of genetically identical cells c) Digestion of DNA by restriction enzyme
 - d) Isolation of DNA from a nucleated cell such as the one from the scene of crime
- 44. According to lac operon concept, the regulatory gene regulates biochemical reaction in a cell by:

d) Inhibiting migration of mRNA						
45.	Crossing AABB & aabb, the probability of AaBb would be in F ₂ generation a) 1/16 b) 2/16 c) 8/16 d) 4/16					
46.	 46. The most popularly known blood grouping is the ABO grouping. It is named ABO and not ABC, because "O" in refers to having: a) No antigens A and B on RBCs b) Other antigens besides A and B on RBCs c) Overdominance of this type on the genes for A and B types d) One antibody only-either anti-B on the RBCs 					
47.	7. Which are the commonly used vectors for human genome sequencing? a) BAC and YAC b) Expression vectors c) T-DNA d) T/Acloning vectors					
48.	8. Radioactive element used to label DNA of bacteriophage In Hershey and Chase experiment was a) S^{35} b) P^{32} c) N^{15} d) C^{14}					
	 49. Which one is not a part of transcription unit in DNA? a) The inducer b) Promoter c) Terminator d) Structural gene 50. The first amino acid in any polypeptide chain of prokaryote is always a) Formylated methionine b) Formylated arginine c) Lysine d) Methionine 					
51.	51. Which of the following statements regarding 'human genome' is incorrect? a) Human genome consists of 3 x 10 ⁹ bp and about 20,500 genes. b) The average gene size is 3000 bp and dystrophin is the largest known human gene. c) Chromosome 1 contains maximum (2968) number of genes and V-chromosome has the least (231) number of genes d) Repeated (or repetitive) sequences are not present in human genome.					
52	The fully processed hnRNA is called as (i) and is transported out of the (ii) into					
<i>σ</i> Σ.	he (iii) for translation.					
	b) c) d)					
	i) (ii) (iii) (ii) (iii) (iii) (iii) (iii) (iii)					
	nRNAnucleus cytoplasm mRNAcytoplasmnucleus tRNAcytoplasmnucleus tRNAnucleus tRNAnucleus cytoplasm					
53.	Aatch column I with column II and select the correct option from the given codes.					
	Column I Column II					
	(Scientists) (Discoveries)					
	A. Alec Jeffreys (i) Lac operon					
	3. F. Sanger (ii) Annotated DNA sequences					
	C.Jacob and Monod(iii) DNA fingerprinting					
	Avery, Macleod and McCarty (iv) Transforming principle					
	ı) A-(ii), B-(iii), C-(iv), D-(i) b) A-(iii), B-(ii), C-(iv) c) A-(iii), B-(ii), C-(iv), D-(i)					
	I) A-(i), B-(ii), C-(iii), D-(iv)					
54.	Multiple alleles are present: a) At different loci on the same chromosome b) At the same locus of the chromosome					
	c) On non-sister chromatids d) On different chromosomes					
55.	Which of the following statements is the most appropriate for sickle cell anaemia?					
	i) It cannot be treated with iron supplements. b) It is a molecular disease. i) It confers resistance to acquiring malaria. d) All of the above.					
56.	6. A true breeding plant is:					

a) Inhibiting transcription b) Inactivating enzymes c) Inactivating substrate

	a) near homozygous and produces offspring of its own kind
	b) always homozygous recessive in its genetics constitution c) one that is able to breed on its own
	d) produced due to cross-pollination among unrelated plants
57	. The chromosome which was last to be sequenced in May, 2006 was
	a) X chromosome b) Y chromosome c) Chromosome 1 d) Chromosome 22
58	In the genetic code dictionary how many codons are used to code for all the 20 essential amino acids?
59	. Which enzymes will be produced in a cell in which there is a nonsense mutation in the lac Y gene? a) Laotose permease b) Transacetylase c) Lactose permease and transcetylase d) b- galactosidase
60	. Match the following genes of the Lac operon with their respective products: (a) i gene - (i) $\beta\beta$ — galactosidase (b) z gene - (ii) Permease (c) a gene - (iii) Repressor (d) y gene - (iv) Transacctylase Select the correct option.
	a) (iii) (i) (ii) (iv) b) (iii) (i) (iv) (ii) c) (iii) (iv) (i) (ii) d) (i) (iii) (ii) (iv)
61	. What is the inheritance of colour blindness of both parents having a normal vision but mother has a recessive gene for colour blindness
	a) b) c) d)
	Son Daughter Son Daughter Son Daughter Son Daughter
	50% Nil 100% Nil Nil 100% Nil Nil Nil
62	Due to discovery of which of the following in 1980 the evolution was termed as RNA world? a) mRNA, tRNA, rRNA synthesise proteins b) In some virus RNA is genetic material c) RNA have enzymatic Property d) RNA is not found in all cells
63	 Gene regulation governing lactose operon of E.coli that involves the lac I gene product is a) Negative and inducible because repressor protein prevents transcription. b) Negative and repressible because repressor protein prevents transcription. c) Feedback inhibition because excess of b - galactosidase can switch off transcription. d) Positive and inducible because it can be induced by lactose
64	. Which of the following RNA play structural and catalytic role during translation a) m-RNA b) t-RNA c) r-RNA d) All
65	The RNA polymerase holoenzyme transcribes a) the promoter, structural gene and the terminator region b) the promoter and the terminator region c) the structural gene and the terminator region d) the structural gene only.
66	. Removal of RNA polymerase III from nucleoplasm will affect the synthesis of a) tRNA b) hnRNA c) mRNA d) rRNA
67	Two allelic genes are located on: a) The same chromosome b) Two homologous chromosomes c) Two-non-homologous chromosomes d) Any chromosomes
68	. In most of the plant viruses genetic material is a) ssDNA b) ssRNA c) dsRNA d) ssRNA + ssDNA
69	Read the following statements and select the correct option. (i) Loosely packed and lightly stained region of chromatin are called as heterochromatin. (ii) Densely packed and dark stained region of chromatin are called as euchromatin. (iii) A typical nucleosome contains 200 bp of DNA hehx. a) Statements (i) and (ii) are true, but statement (iii) is false. b) Statements (i) and (ii) are false, but statement (iii) is true. c) Statements (ii) and (iii) are true, but statement (i) is false. d) All the statements are true

70. During DNA replication, the strands separate by a) DNA polymerase b) topoisomerase c) unwindase/helicass d) gyrase
71. DNA differs from RNA in a) Only Sugar b) Nitrogen base only c) Nitrogen base and sugar d) None
72. Reverse transcriptase using RNA, forms which of the following? a) Double stranded DNA b) Double stranded RNA c) DNA & RNA d) Single stranded RNA
73. C value is the characteristic DNA content in a haploid cell of a given species. Earlier it was considered that (value correlates with organism complexity. However, it is now evident that C value varies enormously among species and that this bears no correlation with the complexity of the organisms. For example, the cells of some salamanders may contain 40 times more DNA than those of humans. Which of the following explains this C value paradox? a) Polyploidy b) Chromosomal mutation c) Non-coding DNA d) Coding DNA
74. Select the two correct statements out of the four (a - d) given below about lac operon (i) Glucose or galactose may bind with the repressor and inactivate it (ii) In the absence of lactose the repressor binds with the operator region (iii) The z-gene codes for pennease (iv) This was elucidated by Francois Jacob and Jacque Monod The correct statements are a) (ii) and (iii) b) (i) and (iii) c) (ii) and (iv) d) (i) and (ii)
75. Which was the last human chromosome to be completely sequenced? a) Chromosome 1 b) Chromosome 11 c) Chromosome 21 d) Chromosome X
76. Kornberg enzyme is known as a) DNA polymerase I b) DNA polymerase II c) DNA polymerase III d) RNA polymerase
77. DNA acts as a template for synthesis of a) RNA b) DNA c) Both 'a' and 'b' d) Protein
 78. DNA as an acidic substance present in nucleus was first identified by in1869; he named it as a) Meischer, nuclein b) Watson and Crick, DNA c) Chargaff, nuclein d) Wilkins and Franklin, double helix 79. Who proved that DNA is basic genetic material? a) Griffith b) Watson c) Boveri and Sutton d) Hershey and Chase 80. Cap nucleotldes at 5' of mRNA consists of a) m⁷G b) m⁵C c) Poly A d) CCA
81. Which one of the following is a wrong statement regarding mutations? a) UV and Gamma rays are mutagens b) Change in a single base pair of DNA does not cause mutation c) Deletion and insertion of base pairs cause frameshift mutations d) Cancer cells commonly show chromosomal aberrations
82. Which of the following may be true for RNA a) A = U G = C b) A ≠ U G ≠ C c) A = U = G = C d) Purines = Pyrimidines
83. According to Chargaff rule, A+T/G+C value in E. coli and human beings respectively are a) 1.52 and 0.97 b) 0.93 and 1.52 c) 0.66 and 1 d) Always unit in both
84. t-RNA attach to larger subunit of ribosome with the help of which loop a) DHU-loop b) TΨC loop c) Anticodon loop d) Minor loop
85. Semiconservative mode of DNA replication was experimentally proved in prokaryotes by a) Meselson and Stahl b) Taylor c) Jacob and Monod d) A. Kornberg
86. In a DNA percentage of thymine is 20% then what will be the percentage of guanine? a) 20% b) 40% c) 30% d) 60%
87. In a mRNA molecule, untranslated regions (UTRs) are present at: a) 5'-end (before start codon) b) 3'-end (after stop codon) c) both (a) and (b) d) 3' - end only.

88. How many pairs of contrasting characters in pea plants were studied by Mendel in his experiments? a) Six b) Eight c) Seven d) Five
89. Back bone in structure of DNA molecule is made up of- a) Pentose Sugar and phosphate b) Hexose sugar and phosphate c) Purine and purimidine
d) Sugar and phosphate
90. If distance between gene on chromosome is then gene shows: a) Weak linkage b) Strong linkage c) Less crossing d) 1 & 3 both
91. Read the sequence of nucleotides in the given segment of mRNA and the respective amino acid sequence in the polypeptide chain to answer the Q. nos. 65 and 66.
mRNA AUG UUU AUG CCU GUU UCU UAA
Polypeptide Met—Phe—Met—Pro—Val—Ser Nucleotide sequence of the DNA strand from which this mRNA was transcribed is a) TAC AAA TAC GGA CAA AGA ATT b) AUG UUU AUG CCU GUU UCU UAA c) UAC AAA UAC GGA CAA AGA AUU d) ATG TTT ATG CCT GTT TCT TAA.
92. Severo Ochoa enzyme is a) DNA polymerase b) Guanyl transferase c) Peptidyl transferase d) Polynucleotide phosphorylase
93. t-RNA attaches, amino acid at its: a) 3' end b) 5' end c) Anticodon d) Loop
94. Assertion: A change in nitrogen base at the third position of a codon causes change in the expression of the codon.
Reason: A codon is mostly read by all the three nitrogen bases a) If both assertion and reason are true and reason is the correct explanation of assertion. b) If both assertion and reasonare true but reason is not the correct explanation of assertion. c) If assertion is true but reason is false. d) If both assertion and reasonare false
95. Transformation experiment was first performed on which bacteria? a) E.coli b) Diplococcus pneumoniae c) Salmonella d) Pasteurella pestis
96. Histone proteins are a) basic, negatively charged b) basic, positively charged c) acidic, positively charged d) acidic, negatively charged.
97. DNA replication is
a) conservative and discontinuous b) semi-conservative and semidiscontinuous c) semi-conservative and discontinuous d) conservative
98. Reverse transcriptase is a) RNA dependent RNA polymerase b) DNA dependent RNA polymerase c) DNA dependent DNA polymerase d) RNA dependent DNA polymerase
99. Select the correct statements out of the following. (i) Both DNA and RNA are able to mutate. (ii) RNA being unstable, mutates at a faster rate. (iii) RNA shows catalytic properties. (iv) Presence of uracil (U) at place of thymine (T) confers additional stability to RNA. a) (i) and (ii) b) (ii) and (iii) c) (i) and (iv) d) (i), (ii) and (iii)
100. The process of translation is a) ribosome synthesis b) protein synthesis c) DNA synthesis d) RNA synthesis
101. If the sequence of bases in DNA is ATTCGATG, then the sequence of bases in its transcript will be a) CAUCGAAU b) UAAGCUAC c) GUAGCUUA d) AUUCGAUG
102. Biochemical characterisation of transforming principle was done by a) Hershey and chase b) Morgan c) Meischer d) Avery, MacLeod and McCarty
103. In pedigree analysis symbol is used for ⊙ is used for

104.	Which of the following is a stop a) AUG,GUG,UUU b) UGA,U	codon JAG,UAA c) UUU,UAC,CUC d) CUC,UAC,UAA				
105.	A useful process for determinin a) Cross-breeding b) self fert	g whether an individual is homozygous or heterozygous is: ilization c) Back-crossing d) Test cross				
106.	6. Dihybrid plants from how many types of pollen grains a) One b) Two c) Four d) Eight					
107.		IA that codes for a protein with 33 amino acids, and the base at position 901 is the RNA becomes 998 bases, how many codons will be altered?				
108.	08. The first codon discovered by Nirenberg and Mathei was a) CCC b) GGG c) UUU d) AAA					
109.	09. Match the terms in Column-I with their description in Column-II and choose the correct option: Column-I (a) Dominance (i) Many genes govern a single character (b) Codominance (ii) In a heterozygous organism only one allele expresses itself (c) Pleiotropy (iii) In a heterozygous organism both alleles express themselves fully (d) Polygenic inheritance(iv) A single gene influence many characters a) b) c) d) (a) (b) (c) (d) (a) (b) (c) (d) (a) (b) (c) (d) ii i iv iii iii iv iii iii iv iii iii i					
	d) phenylalanine and methionir	reonine and histidine c) tyrosine and tryptophan				
	a) Rye b) Pearl millet c) Su	·				
112.	Which of the following difference	es are incorrect between leading and lagging strands of DNA?				
	Leading strand	Lagging strand				
	(i) DNA ligase for its	DNA ligase is required for joining Okazaki fragments.				
	(ii) Formation of leading strand is slower.	Formation of lagging strand is quite rapid				
	(111)	Its template opens in 3' → 5' direction. Formation of lagging				
	(iv) begins immediately at the beginning of replication.	strand begins a bit later than that of leading strand.				
		and (iv) only c) (ii) and (iii) only d) (i), (ii) and (iii) only				
113.		35% In DNA double helix, then the percentage of guanine will be l) 15%				
114.	Which Mendelism Idea is depic	ted by a cross in which the F ₁ generation resembles both the parents?				

a) Heterozygous for autosomal recessive b) Affected individuals c) Death

d) Carrier for sex linked recessive

b) If both assertion and reasonare true but reason is not the correct explanation of assertion.c) If assertion is true but reason is false.d) If both assertion and reasonare false

a) If both assertion and reason are true and reason is the correct explanation of assertion.

Reason: The product of gene activity stops the activity of the said gene.

115. **Assertion:** Lac operon is a repressible operon.

a) co-dominance b) Incomplete dominance c) Law of dominance d) inheritance of one gene

116.	Which one among the following was the first genetic material? a) DNA b) RNA c) Protein d) Nuclein				
117.	Whose experiments cracked DNA and discovered triplet nature of genetic code? a) Nirenberg and Mathaei b) Beadle and Tatum c) Hershey and Chase d) Morgan and Sturtevant				
118.	 8. Assertion: When the DNA sequences of two people are cut using the same restriction enzyme, the length number of fragments obtained are different for both. Reason: DNA sequence is arranged tandemly in many copy numbers which varies from chromosome to chromosome in an individual, showing high degree of polymorphism. a) If both assertion and reason are true and reason is the correct explanation of assertion. b) If both assertion and reasonare true but reason is not the correct explanation of assertion. c) If assertion is true but reason is false. d) If both assertion and reasonare false 				
119.	9. A bacterium with completely radioactive DNA was allowed to replicate in a non-radioactive medium for two generation what % of the bacteria should contain radioactive DNA a) 100% b) 50% c) 25% d) 12.5% 				
120.	Haploids are more suitable for mutation studies than the diploids. This is because: a) haploids are more abundant in nature than diploids b) All mutations, whether dominant or recessive are expressed in haploids				
	c) Haploids are reproductively more stable than diploids				
	d) Mutagens penetrate in haploids more effectively than in diploids				
121.	A nucleoside differs from a nucleotide. It lacks the a) base b) sugar c) phosphate group d) hydroxyl group				
122.	2. In split genes, the coding sequence are called a) introns b) operons c) exons d) cistrons				
123.	rRNA is synthesised in a) Nucleus b) Glogi body c) Cytoplasm d) Nucleoplasm				
	DNA fingerprinting refers to a) Techniques used for identification of fingerprints of individuals				
	b) Molecular analysis of profiles of DNA samples c) Analysis of DNA samples using imprinting devices				
	d) Techniques used for molecular analysis of different specimens of DNA				
125.	DNA replication takes place at phase of the cell cycle. a) G ₁ b) S c) G ₂ d) M				

and