

Ravi Maths Tuition Centre

Time: 1 Mins BIOLOGICAL CLASSIFICATION 1 Marks: 1180

1. Assertion: Two kingdom classification was insufficient

Reason: Majority of organisms did not fall into either of the categories in two kingdom classification.

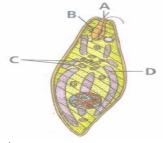
- a) If both assertion and reason are true and reason is the correct explanation of assertion.
- b)
- If both assertion and reason are true but reason is not the correct explanation of assertion.
- c) If assertion is true but reason is false. d) If both assertion and reason are false.
- 2. Mark the incorrect match
 - a) Amoeboid protozoan -Gonyaulax b) Flagellated protozoan -Trypanosoma
 - c) Ciliated protozoan -Paramoecium d) Sporozoan -plamodium
- 3. Ciliates differ from all other protozoans in :
 - a) Using pseudopodia for capturing prey
 - b) Having a contractile vacuole for removing excess water. c) Using flagella for locomotion
 - d) Having two types of nuclei
- 4. Which fungal disease spreads by seed and flowers?
 - a) Loose smut of wheat b) Corn stunt c) Covered smut of barley d) Soft rot of potato
- 5. There exists a close association between the alga and the fungus within a lichen. The fungus
 - a) Provides protection, anchorage and absorption for the alga b) Provides food for the alga
 - c) Fixes the atmospheric nitrogen for the alga d) Releases oxygen for the alga
- 6. Kingdom Plantae includes
 - a) algae and bryophytes b) pteridophytes and gymnosperms c) angiosperms
 - d) all of these.
- 7. Flaggellation in Euglena is
 - a) Uniflagellation b) Isokont and whiplash type c) Heterokont and whiplash type
 - d) Heterokont and stichonematic
- 8. Some hyperthermophilic organisms that grow in highly acidic (pH = 2) habitats belong to the two groups.
 - a) Liverworts and yeasts b) Eubacteria and Archaea c) Cyanobacteria and diatoms
 - d) Protists and mosses
- 9. Read the following statements regarding methanogens and select the correct option.
 - (i) They are included in the group Archaebacteria.
 - (ii) They are responsible for the production of biogas in gobar gas plants.

	(iii) They live in hot sulphur springs.(iv) They are strictly anaerobic.a) Statements (i) and (ii) are correct b) Statements (i), (ii) and (iv) are correct	ect
	c) Statements (ii), (iii) and (iv) are correct d) All statements are correct.	
10.	10. Which of the following organisms possesses characteristics of both a plant aa) Bacteriab) Mycoplasmac) Euglenad) Paramecium	nd an animal?
11.	11. Which pair of the following belongs to Basidiomycetes?	
	a) Puffballs and Claviceps b) Peziza and stink borns c) Morchella and mu	ushrooms
	d) Birds nest fungi and puffballs.	
12.	12. Entamoeba coli causes	
	a) Pyorrhoea b) Diarrhoea c) Dysentery d) None of these	
13.	13. Match column I with column II and select the correct option from the given co	odes.
	Column I Column II	
	A. Chief producers in oceans(i) Euglenoids	
	B. Red tides (ii) Diatoms	
	C. Mixotrophic nutrition (iii) Slime moulds	
	D. Plasmodium (iv) Dinoflagellates	
	a) A-(ii), B-(iv), C-(i), D-(iii) b) A-(ii), B-(iv), C-(iii), D-(i) c) A-(ii), 8-(iii), C-(iii)), D-(iv)
	d) A-(i), 8-(iv), C-(iii), D-(ii)	
14.	14. Cauliflower mosaic virus contains	
	a) ss RNA b) ds RNA c) ds DNA d) ss DNA	
15.	15. White rust disease is caused by	
	a) Claviceps b) Alternaria c) Phytophthora d) Albugo Candida	
16.	16. The structures that help some bacteria to attach to rocks and / or host tissue	s are:
	a) Fimbriae b) Mesosomes c) Holdfast d) Rhizoids	
17.	17. Yeast (Sacchciromyces cerevisiae) is used in the industrial production of	
	a) Citric acid b) Tetracycline c) Ethanol d) Butanol	
18.	18. Archaebacteria differs from eubacteria in :	
	a) Cell Membrane structure b) Mode of nutrition c) Cell shape d) Mode	of reproduction
19	19. Ustilago caused plant diseases are called smuts because	-
	a) They parasitise cereals b) Mycelium is black c) They develop sooty ma	
	d) Affected parts become completely black	
20	20. Which one of the following does not differ in E.coli and Chlamydomonas?	
_0.	a) Cell wall b) Cella membrane c) Ribosomes d) Chromosomal organiz	ation
21	21. In lichen, the fungus provides:	
	a) Protection, anchorage and absorption for alga b) Food for alga c) Oxy	gen for alga
	d) Fixes nitrogen for alga	3
22.	22. Assertion: Cell wall of Chrysophytes are indestructible.	
	Reason: Cell walls of Chrysophytes have layer of magnesium pectate embe	dded in it.
	a) If both assertion and reason are true and reason is the correct explanation	
	b)	
	If both assertion and reason are true but reason is not the correct explanation	n of assertion.

	c) If assertion is true but reason is false. d) If both assertion and reason are false.
23.	Read the given statements about lichens and select the incorrect ones. (i) They represent an example of commensalism. (ii) Algal partner obtains water and mineral salts from the fungus and the fungal partner obtains feed prepared by the alga-
	food prepared by the alga. (iii) These do not grow in polluted areas. (iv) The mycobiont is usually an Ascomycetes or a Basidiomycetes. (v) The phycobiont is mostly a green alga or a cyanobacterium. (vi) These constitute the pioneer community in case of hydrosere. a) (i) and (ii) b) (v) and (vi) c) (i) and (vi) d) (i), (v) and (vi)
24.	Assertion: The protoplasm of plasmodial slime mould is considered purest in the world. Reason: Protoplasm of Plasmodium is differentiated into an outer enucleated and central nucleated portions.
	a) If both assertion and reason are true and reason is the correct explanation of assertion.b)
	If both assertion and reason are true but reason is not the correct explanation of assertion. c) If assertion is true but reason is false. d) If both assertion and reason are false.
25.	Siliceous frustules of diatoms being indestructible, piled up at the bottom of ocean and formed a thick bed over billions of years. Such a thick bed is known as a) red sea b) diatomaceous earth c) pseudorocks d) red tides.
26.	Select the pair that consists of plant or animal bacterial diseases. a) Cholera and typhoid b) Citrus canker and crown gall c) Malaria and dengue d) Both (a) and (b)
27.	Which of the following are most suitable indicators of SO ₂ pollution in the environment? a) Conifers b) Algae c) Fungi d) Lichens
28.	Which of the following kingdoms has no well-defined boundaries? a) Monera b) Protista c) Fungi d) None of these
29.	Read the following statements and select the correct option. Statement 1: Euglena can be considered as a plant due to the presence of chlorophyll. Statement 2: Euglena cannot be classified on the basis of two kingdom system of classification. a) Both statements 1 and 2 are correct b) Statement 1 is correct but statement 2 is incorrect
	c) Statement 1 is incorrect but statement 2 is correct. d) Both statements 1 and 2 are incorrect
30.	Coenocytic mycelium is a) uninucleate, septate b) multinucleate, septate c) multinucleate, septate d) both (b) and (c).
31.	The five kingdom classification was proposed by a) R.H. Whittaker b) C. Linnaeus c) A. Roxberg d) Virchow.
32.	Malignant tertian malarial is caused by a) Plasmodium falciparum b) P.vivax c) P. ovale d) P. malariae

SS.	a) methanogens b) halophiles c) heliophytes d) thermoacidophiles.				
34.	bacteria oxidise various inorganic substances such as nitrates, nitrites and				
	ammonia and use the released energy for ATP production. They play an important role in				
	recycling of nutrients (N, P, Fe, S etc.).				
	a) Photosynthetic autotrophic b) Chemosynthetic autotrophic c) Parasitic				
	d) Saprophytic				
35.	Five kingdom system of classification suggested by R.H. Whittaker is not based on:				
	a) Presence or absence of a well defined nucleus b) Mode of reproduction				
	c) Mode of nutrition. d) Coraplexity of body organisation.				
36.	A few organisms are known to grow and multiply- at temperatures of 100- 105°C They belong to				
	a) Marine archaebacteria b) Thermophilic sulphur bacteria				
	c) Hot-spring blue-green algae (cyanobacteria) d) Thermophilic, subaerial firngi				
37.	Contagium vivum fluidum was proposed by				
	a) D. J. Ivanowsky b) M. W. Beijerinck c) Stanley d) Robert Hooke.				
38.	Read the following statements regarding euglenoids and select the incorrect ones				
	(i) These are mostly freshwater organisms found in stagnant water.				
	(ii) Their body is covered by a protein rich layer called pellicle which makes their body flexible.				
	(iii) They are photosynthetic in the presence of sunlight but become heterotrophs in the				
	absence of sunlight.				
	(iv) They usually possess two flagella, one long and one short.				
	(v) Euglenoids are multicellular ciliate protists. a) (i) and (v) b) (iv) and (v) c) (iii) only d) (v) only				
20					
39.	Excretion in Amoeba occurs through a) Lobopodia b) Uroid Portion c) Plasma membrane d) Contractile vacuole				
40					
40.	Who crystallised and isolated viruses for the first time? a) W.M. Stanley b) K.M. Smith c) D. Ivanowski d) F.C.Bawden				
4.4					
41.	The motile bacteria are able to move by : a) Fimbriae b) Flagella c) Cilia d) Pili				
42.	Photosynthetic bacteria have pigments in				
	a) Leucoplasts b) Chloroplasts c) Chromoplasts d) Chromatophores				
43.	Single-celled eukaryoles are included in				
	a) Monera b) Protista c) Fungi d) Archaea				
44.	To form fruiting bodies for spores formation, plasmodium stage of slime moulds undergoes				
	a) Aggregation under favourable conditions				
	b) Differentiation under unfavourable conditions				
	c) Chemotactic movement to form motile gametes				
	d) Differentiation under favourable conditions				

45. Study the given figure showing structure of Euglena and select the option that correctly identifies A, B, C and D.



a)

Α	В	С	D
Cytostome	Photoreceptor	Paramylum bodies	Myonemes
I- \			

b)

Α	В	С		D
Contractile vacuole	Photoreceptor	Paramylum l	bodies	Chloroplast
c)			C	4)

c)

A B C D A	АВ	С	D
Cytostome Stigma Paramylum bodies Chloroplast Cytos	stome Stigma	Myonemes	Chloroplast

46. **Assertion:** Archaebacteria are able to survive in harsh habitats.

Reason: Presence of peptidoglycan in cell wall help archaebacteria to survive in extreme conditions.

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

If both assertion and reason are true but reason is not the correct explanation of assertion.

- c) If assertion is true but reason is false. d) If both assertion and reason are false.
- 47. **Assertion:** Deuteromycetes is known as fungi imperfect.

Reason: In Deuteromycetes, only the asexual phase is known.

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

If both assertion and reason are true but reason is not the correct explanation of assertion.

- c) If assertion is true but reason is false. d) If both assertion and reason are false.
- 48. Archaebacteria can survive in extreme conditions due to
 - a) Different metabolism b) Similar cell membrane as eubacteria
 - c) Different cell wall structure d) Diverse types of nutrition
- 49. Which is wrong for viroids?
 - a) Their RNA is of high molecular weight b) They lack a protein coat
 - c) They are smaller than viruses d) They cause infections
- 50. Which of these is a defining character of plants?
 - a) Autotrophic nature b) Eukaryotic cell structure c) Cellulosic cell wall
 - d) Aerobic respiration
- 51. Haploid sexual spore produced exogenously is
 - a) Ascospore b) Oospore c) Basidiospore d) Zygospore
- 52. Which of the following statements about Euglena is correct?

	a) Euglena is a flagellate organism.b) Euglena when placed in continuous darkness, loses its photosynthetic activity and dies.c) The pigments of Euglena are quite different from those of green plants.d) Euglena is a marine protist.
53.	Select the mismatched pair a) W.M. Stanley - Viruses could be crystallised b) D.J. Ivanowsky - Coined term virus c) M.W Beijerinck - Extract of the infected plants of tobacco cause infection in healthy plants d) None of these
54.	Tobacco mosaic virus is a tubular filament of size a) 700 x 30 nm b) 300 x 10 nm c) 300 x 5 nm d) 300 x 20 nm
55.	Mer karyogamy followed by meiosis, spores are produced exogenously in : a) Agaricus b) Alternaria c) Neurospora d) Saccharomyces.
56.	Assertion: Pasteur coined Contagium Vivum Fluidum. Reason: Pasteur found that virus infected plant of tobacco can cause infection in healthy plant.
	a) If both assertion and reason are true and reason is the correct explanation of assertion.b)If both assertion and reason are true but reason is not the correct explanation of assertion.c) If assertion is true but reason is false.d) If both assertion and reason are false.
57.	Which of the following statement is incorrect? a) Viruses are obligate parasites. b) Infective constituent in viruses is the protein coat. c) Prions consist of abnormally folded proteins. d) Viroids lack a protein coat.
58.	Sexual reproduction in fungi occurs by all of the following except a) oospores b) ascopores c) zoospores d) basidiospores.
59.	Read the following statements and select the correct option Statement 1: Almost all bacteria possess lipoproteinaceous plasma membrane. Statement 2: The plasma membrane of archaebacteria as well as eubacteria have same type of lipids. a) Both statements 1 and 2 are correct. b) Statement 1 is correct but statement 2 is incorrect. c) Statement 1 is incorrect but statement 2 is correct. d) Both statements 1 and 2 are incorrect.
60.	The infective state of malarial parasite Plasmodium that enters human body is
	a) Merozoite b) Sporozoite c) Trophozoite d) Minuta form
61.	Fungi show a sexual reproduction by all of the following kinds of spores except. a) conidia b) oospores c) sporangiospore d) zoospores.
62.	The major criterion of five kingdom system of classification is a) Complexity of cell structure b) Mode of nutrition c) Complexity of body organisation d) Ecological
63.	Some members are saprophytes or parasites whereas a large number of members are decomposers of litter and help in nutrient cycling in case of

	a) monerans b) protists	c) fungi d) slime moulds.				
65.	Bacteria are grouped under and select the correct option	four categories according to their shape. Study the regarding this.	ne given figures			
	The second					
	A B	C D				
	a) b	o) c)				
	A B C D	A B C D A B C D				
	CocciBacilli Spirilla Vibrio	SpirillaBacilliVibrioCocci BacilliSpirillaVibrioCoc	ci			
	d)					
	A B C D					
	Bacilli Spirilla Cocci Vibrio					
66.	Bacterial leaf blight of rice is	caused by a species of				
	a) Xanthomonas b) Pseud	lornonas c) Alternaria d) Erwinia				
67.	The primitive prokaryotes re	esponsible for the production of biogas from the di	ung of ruminan			
	animals include the :		J			
	a) Eubacteria b) Halophile	es c) Thermoacidophiles d) Methanogens				
68.	In Penicillium, the asexual re	eproduction takes place by				
00.		spores c) sporangiospores d) conidiospores.				
60	Genetic information in Parar	, , , , , , , , , , , , , , , , , , , ,				
03.		nucleus c) Both (a) and (b) d) Mitochondria				
70	·					
70.	Which of the following statements regarding viruses are correct?					
	(i) These are cellular, infectious, nucleoprotien particles.(ii) They can be grown in culture medium.					
	(iii) Genetic material is either DNA or RNA, but never both.					
	(iv) They can be crystallised.					
	a) (i) and (ii) b) (ii) and (iii) c) (iii) and (iv) d) (i), (ii), (iii) and (iv)					
71			and Proticto?			
/ 1.		ns incorrectly distinguishes the Kingdoms Monera	and Prolista?			
	a) Monera	Protista				
	Includes unicellular prokaryotes Includes multicellular eukaryotes					
	b)	Protista				
	Monera Membrane bound cell argen					
	wembrane bound cell organ	nelles are absent <mark>Membrane bound cell organelles</mark>	are present			

a) Phycomycetes b) Deuteromycetes c) Ascomycetes d) Basidiomycetes

64. Naked cytoplasm, multinucleated and saprophytic a the characteristics of

Monera	Protista
Cell wall when present, made up of pepti	doglycans Cell wall, if present, contains cellulose
d)	
Monera	Protista
Flagella, when present, comprise of protein flagellin	Flagella and cilia when present, made up of protein tubulin
72. Temperature tolerance of thermal blue-gra) Cell wall structure b) Cell organisationd) Homopolar bonds in their proteins	
73. Term used for the closed ascocarp isa) apothecium b) amphithecium c) en	ndothecium d) cleistothecium.
 74. African sleeping sickness is due to	se fly d bug by Glossina palpalis
75. Which one of the following statements aba) Viruses possess their own metabolic sc) Viruses are facultative parasites d) V	ystem b) Viruses contain either DNA or RNA
3	ssification, eukaryotes are distributed among) four kingdoms d) all the five kingdoms
77. An association between roots of higher page (a) lichen b) fern c) mycorrhiza d) B0	-
78. Influenza virus has a) DNA b) RNA c) Both (a) and (b)	d) Only proteins and no nucleic acids
79. Causal organisms of sleeping sickness a of protozoan protists?a) Amoeboid protozoans b) Flagellated d) Sporozoans	nd kala-azar belong to which of the following group: protozoans c) Ciliated protozoans
·	ers of litter and help in mineral cycling belong to : c) Basidiomycetes d) Phycomycetes.
81. Which one of the following statements ab a) They are pleomorphic, b) They are s	ensitive to penicillin,

- 81.
 - c) They cause diseases in plants, d) They are also called PPLO.
- 82. Main component of the cell wall of fungi is
 - a) cellulose b) pectin c) chitin d) dextrin.
- 83. Maximum nutritional diversity is found in the group
 - b) Plantae c) Fungi d) Animalia a) Monera
- 84. Cyanobacteria are also referred to as:
 - b) Golden algae c) Slime moulds d) Blue green algae a) Protists
- 85. The correct placement of cyanobacteria according to whittaker system of classification is in

а	ı) Fungi ar	nd monera	b) Monera or	nly c) monera	and protista	d) Fungi and plantae
6		is a unic	ellular fungus	•		
а) Yeast	b) Rust c)	Smut d) Bre	ead mould		
				most abundant Polluted stream		
(i (i (i (i V	i) Instead ii) They ha iii) They sh iv) They ai Vhich of th	of a cell wall ave 2 flagella now mixotrop re connecting ne following o	they have a post, a short and ohic nutrition. I link between groups is referenced.	a long one. n plants and ani	cle making th	eir body flexible. d) Euglenoids
	_	-		•		, •
а) Monera		o) Fungi and բ	olants c) Proti	sta and anima	alia
a irr p G G	t a definite n fungi froi	e stage in the	e life cycle. Id		ent types of s	tible nuclei from two parents exual reproduction occurring
a	<u> </u>		5	0	-	l
-	Р	Q	R	S	Т	
F	leterogam	างเดเลเ	Gametangial copulation	Spermatisation	Somatogamy	
b)					
	Р	Q	R	S	Т	
g	Plano- pametic copulation	Gametangial copulation	Gametangia contact	 Spermatogamy	/Heterothallis	sm

c) P Q S R Т Plano gametic Gametangial Gametangial Spermatisation Somatogamy copulation copulation contact d) Ρ R S Q Planogametic Hetero Conidiospores Heterogamy Oogamy copulation thallism

- 91. Read the following statements and select the option arbovirus. which identifies the incorrect ones.
 - (i) Potato spindle tuber disease and **Chrysanthemum** stunt disease are caused by viroids.
 - (ii) T₄ bacteriophage exhibits lytic cycle.
 - (iii) Retroviruses have two copies of ssRNA.
 - (iv) Interferons which prevent viral multiplication are glycolipid particles.
 - a) (ii) and (iii) b) (i) and (iv) c) (iii) only d) (iv) only
- 92. a. Asexual spores generally absent
 - b. Vegetative reproduction commonly by fragmentation
 - c. Sex organs absent but sexual reproduction present
 - d. Used extensively in genetic and biochemical
 - e. Site of karyogamy and meiosis in asus
 - f. Basidium produces endogenous sexual spores
 - g. Morels and truffles are edible members

Out of these given features, which ones are associated with basidiomycetes?

- a) a, c and f b) a, b and c c) c, d and f d) f and g only
- 93. Which statement is correct for bacterial transduction?
 - a) Transfer of some genes from one bacteria to another bacteria through virus.
 - b) Transfer of genes from one bacteria to another bacteria by conjugation.
 - c) Bacteria obtains its DNA directly. d) Bacteria obtains its DNA from other external source.
- 94. Which of the following are likely to be present in deep sea water?
 - a) Eubacteria b) Blue-green algae c) Saprophytic fungi d) Archaebacteria
- 95. The term algae is applied to the cyanobacteria on the basic of
 - a) Cell wall b) Photosynthetic activity c) Flagella d) Sexual reproduction
- 96. Which one of the following organisms is not a eukaryote?
 - a) Paramecium caudatum b) Escherichia coli c) Euglena viridis d) Amoeba proteus
- 97. Which one of the following is an incorrect pair?
 - a) Louis Pasteur Coined the term 'virus' b) Beijerinck Contagium vivum fluidum
 - c) Ivanovsky Discovered retroviruses d) Stanley Crystallised TMV
- 98. Pick up the wrong statement.
 - a) Nuclear numbrane is present is Monera b) Cell wall is absent in Animalia
 - c) Protista have photosynthetic and heterotrophic modes of nutrition
 - d) Some fungi are edible.
- 99. The guts of cow and buffalo possess:
 - a) Cyanobacteria b) Fucus spp. c) Chiarella spp. d) Methanogen

•	ase - Meloid	ogyne j	avanica b	-	pajra - Tolysporium penicillariae of potato - Phl'tophthora infestans
Viruses have: a) DNA enclosed d) Both DNA and		coat l	o) Prokaryo	tic nucleus	c) Single chromosome
The most abunda of antibiotics are a) Cyanobacteria d) Heterotrophic	the ones cat b) Archae	egorise	d as:		ng curd from milk and in production autotrophs
How many organ Lactobacillus, No Trypansoma, Por a) Four b) Five	stoc, Chara, phyrs, Wolfi	Nitrosc a		_	r? treptomyces, Sacharomyces,
,	ffles - Phyco	•	,		ad stools - Basidiomycetes f potato - Phytophthora infestans
In five kingdom so a) Structure of nu d) Asexual reprod	cleus b) M				
Which one of the exception in it?	following se	t of iten	ns in the op	tion (a-d) a	re correctly categorized with one
Items	Category	-	tion		
UAA, UAG, UGA	Stop codons	UAG			
b)					7
Items	10/2021 - 4 0		egory	Exception] -
Kangaroo, Koala	, wombatAu	ıstrallan	marsupiais	vvombat	
c)	ems		Category	Exception	
Plasmodium Cus		nosoma			

d) Category Items **Exception** Typhoid, pneumonia, diphtheria Bacteria diseases diphtheria

- 107. In which of the animals dimorphic nucleus is found?
 - b) Trypanosoma gambiense c) Plasmodium vivax a) Amoeba proteus
 - d) Paramecium caudatum
- 108. Anoxygenic photosynthesis is characteristic of
 - a) Rhodospirillum b) Spirogyra c) Chlamydomonas d) Ulva
- 109. Membrane-bound organelles are absent in :
 - a) Plasmodium b) Saccharomyces c) Streptococcus d) Chlamydomonas

110.	Chemosynthetic autotrophs are included in how many kingdoms according to whittaker's system?
	a) Four b) Three c) Two d) One
111.	Eukaryotic, achlorophyllous and heterotrophic organisms are grouped under which of the following kingdoms? a) Monera b) Protista c) Fungi d) Plantae
112	The thalloid body of a slime mould (Myxomycetes) is known as
	a) Plasmodium b) Fruiting body c) Mycelium d) Protonema
113.	Which of the following components provides sticky character to the bacterial cell? a) Nuclear membrane b) Plasma membrane c) Glycocalyx d) Cell wall
114.	In five kingdom classification, Chlamydomonas and Chlorella have been included in : a) Protista b) Monera c) Plantae d) Algae
115.	Match column I with column II and select the correct option from the given codes.
	Column I Column II
	A. Plant virus (i) Kuru disease
	B. Animal virus(ii) Potato spindle tuber
	C. Viroids (iii) Polio
	D. Prions (iv) Tobacco mosaic
	a) A-(iv), B-(iii), C-(ii), D-(i) b) A-(iv), B-(iii), C-(ii), D-(i) c) A-(iii), B-(iv), C-(i), D-(ii)
	d) A-(ii), B-(iii), C-(iv), D-(i)
116.	Assertion: Sporozoans may have silica shells on their surface.
	Reason: Shells of sporozoans help in protection from acidic environment of the host.
	a) If both assertion and reason are true and reason is the correct explanation of assertion.b)
	If both assertion and reason are true but reason is not the correct explanation of assertion. c) If assertion is true but reason is false. d) If both assertion and reason are false.
447	· ·
117.	All eukaryotic unicellular organisms belong to a) Monera b) Protista c) Fungi d) Bacteria.
118.	Which one is an incorrectly matched pair?
	a) Phycomycetes - Mucor, Albugob) Ascomycetes - Penicillium, Aspergillusc) Basidiomycetes - Puccinia, Agaricusd) Deuteromycetes - Ustilago, Colletotrichum
119.	The chemical compounds produced by the host plants to protect themselves against fungal
	infection is
	a) Phytotoxin b) Pathogen c) Phytoalexins d) Hormone
120.	Bacterial cell divides every one minute. It takes 15 minutes a cup to be filled one-fourth. How
	much time will it take to fill the cup full?
	a) 30 minutes b) 45 minutes c) 60 minutes d) 17 minutes
121.	In an experiment common Tobacco Mosaic Virus (TMV) and its mutant strain 'HR' were used
	to prepare hybrid particles with 'HR' nucleic acid and 'TMV' protein coat. These hybrids were mixed with antibodies against 'HR' strains. If this mixture is applied to plant materials, it will result in

	 a) loss of infectivity of virus particles due to inactivation of nucleic acids b) loss of infectivity due to inactivation of protein coat c) intact infectivity because only coat is neutralised d) unchanged infectivity because neither nucleic acid nor protein coat is neutralised.
122.	What is wrong about mycoplasma? a) They are called PPLO b) They are pleomorphic c) They are sensitive to penicillin d) They produce diseases in plants
123.	Choose the wrong statements a) Neurospora is used in the study of biochemical genetics. b) Morels and truffles are poisonoues mushrooms. c) Yeast is unicellular and useful in fermentation. d) Penicillium is multicellular and produces antibiotics.
124.	Which of the following is not a viral disease of plants? a) Red rot of sugarcane b) Tobacco mosaic disease c) Leaf curl of tomato d) Tristeza disease of citrus
125.	Virus envelope is known as : a) Capsid b) Virion c) Nucleoprotein d) Core
126.	In which group of organisms the cell walls form two thin overlapping shells which fit together?. a) Chrysophytes b) Euglenoids c) Dinoflagellates d) Slime moulds
127.	Macro and micronucleus are the characteristic feature of a) Paramecium and Vorticella b) Opelina and Nictothirus c) Hydra and Ballantidium d) Vorticella and Nictothirus
128.	One of the major components of cell wall of most fungi is a) Chitin b) Peptidoglycan c) Cellulose d) Hemicellulose,
129.	Which of the following statements is incorrect? a) Claviceps is a source of many alkaloids and LSD. b) Conidia are produced exogenously and ascospores endogenously c) Yeasts have filamentous bodies with long thread-like hyphae. d) Morels and truffles are edible delicacies.
130.	Dikaryophase is a specific characteristic of a) all Fungi b) Phycomycetes and Ascomycetes c) Basidiomycetes and Deuteromycetes d) Ascomycetes and Basidiomycetes.
131.	In the five-kingdom classification, Chlamydomonas and Chlorella have been included in
132.	a) Protista b) Algae c) Plantae d) Monera Thermococcus, Methanococcus and Methanobacterium exemplify. a) Bacteria that contain a cytoskeleton and ribosomes b)
	Archaebacteria that lack any histones resembling those found in eukaryotes but whose DNA is negatively supercoiled.

	c) Archaebacteria that contain prod)	tein homologous to eukaryotic core hi	stones.
	,	positively supercoiled but which have	a cytoskeleton as
133.	Viruses that infect bacteria, multip a) Lysozymes b) Lipolytic c) Ly	oly and cause their lysis, are called ytic d) Lysogenic	
134.	Given figure is of filamentous blue and select the correct option.	e green alga Nostoc . Identify the parts	s marked as A and B
	A B		
	a)	b)	c)
	A B Heterocyst Mucilaginous sheath	A B Vegetative cell Mucilaginous sheath	A B Trichomes Cell wall
	d)	vegetative cellivideliagifieds sheatif	Thenomes och wan
	A B		
	Mucilaginous sheath Heterocyst		
135.	Reason: Energy released during	rophic bacteria oxidise various inorgal oxidation is used in ATP production. e true and reason is the correct explar	
		rue but reason is not the correct expla s false. d) If both assertion and reaso	
136.	Which of the following statements	regarding the Class Phycomycetes is	correct?
	obligate parasites on plants. b) Mycelium in these fungi is asep	ts and on decaying wood in moist and otate and coenocytic motile zoospores and by non-motile a	
	d) All of these	modie zoospores and by non-modie a	аріапоѕрогеѕ.
137.	·	decomposers that cause decay and d	lecomposition of dead
	bodies of plants and animals.	otrophic fungi c) Plants, like Sarrace	
138.	Read the given statements that de	escribe certain infectious particle.	
	(i) It was discovered by T.O. Diene(ii) It causes potato spindle tuber of	er and was found to be smaller than vi disease.	ruses.

(iii) It is a free RNA particle which lacks the protein coat. (iv) It has low molecular weight RNA as genetic material. Which of the following is referred to here? a) Virus b) Viroid c) Virion d) Bacteriophage 139. T.O.Diener discovered: a) Free infectious protein b) Free infectious DNA c) Free infectious RNA d) Bacteriophage 140. The main role of bacteria in the carbon cycle involves a) Photosynthesis b) Chemosynthesis c) Digestion or break down of organic compounds d) Assimilation of nitrogenous compounds 141. Which one of the following is not true about lichens? a) Their body is composed of both algal and fungal cells b) Some form food for reindeers in Arctic regions c) Some species can be used as pollution indicators d) These grow very fast at the rate of about 2cm per year 142. The vector for sleeping sickness is a) House fly b) tse-tse fly c) Sand fly d) Fruit fly 143. Which one of the following is wrong for fungi? a) They are both unicellular and multicellular b) They are eukaryotic c) Allfungi possess a purely cellulosic cell wall d) They are heterotrophic 144. Match column I with column II and select the correct option from the given codes. Column II Column I A. Phycomycetes (i).Sac fungi B. Ascomycetes (ii).Algal fungi C. Basidiomycetes (iii) Fungi imperfecti D.Deuteromycetes (iv) Club fungi a) A-(ii), B-(i), C-(iv), D-(iii) b) A-(ii), B-(iv), C-(i), D-(iii) c) A-(iv), B-(i), C-(ii), D-(iii) d) A-(iv), B-(iii), C-(ii), D-(i) 145. Chrysophytes are a) planktons b) nektons c) benthic organisms d) rooted submerged. 146. Which among the following is not a prokaryote? a) Nostoc b) Mycobacterium c) Saccharomyces d) Oscillatoria. 147. Select the wrong statement. a) Bacterial cell wall is made up of peptidoglycan. b) Pili and fimbriae are mainly involved in motility of bacterial cells. c) Cyanobacteria lack flagellated cells. d) Mycoplasma is a wall-less micro-organism. 148. **Assertion:** Virus is an obligate parasite. Reason: Virus is host specific. a) If both assertion and reason are true and reason is the correct explanation of assertion. If both assertion and reason are true but reason is not the correct explanation of assertion. c) If assertion is true but reason is false. d) If both assertion and reason are false.

149. Identify the given figure of a protozoan protist and select the correct option.



	a) Entamoeba histolytica b) Plasmodium vivax c) Giardia intestinalis d) Trypanosoma gambiense
150.	In the five-kingdom system of classification. which single kingdom out of the following can include blue green algae, nitrogen-fixing bacteria and methanogenic archaebacteria? a) Fungi b) Plantae c) Protista d) Monera
151.	The hereditary material present in the bacterium Escherichia coli is a) Single stranded DNA b) Deoxyribose sugar c) Double stranded DNA d) Single stranded RNA
152.	Which of the following organisms are known as chief producers in the oceans? a) Cyanobacteria b) Diatoms. c) Dinoflagellates d) Euglenoids.
153.	Plasmodium, the malarial parasite, belongs to class a) Sarcodina b) Ciliata c) Sporozoa d) Dinophyceae
154.	With respect to the fungal sexual cycle, choose the correct sequence of events. a) Karyogamy, plasmogamy and meiosis b) Meiosis, plasmogamy and karyogamy c) Plasmogamy, karyogamy and meiosis d) Meiosis, karyogamy and plasmogamy
155.	Outerflexible layer in Euglenoids is called a) cell wall b) Pellicle c) Glycocalyx d) More than one option is correct
156.	Viruses are no more "alive" than isolated chromosomes because a) Both require the environment of a cell to replicate. b) They require both RNA and DNA. c) They both need food molecules d) They both require oxygen for respiration.
157.	Asexual reproduction by zoospore formation is the feature of a) Sac fungi b) Fungi imperfecti c) Algal fungi d) Club fungi
158.	The multinucleate slimy mass of protoplasm which forms the body of slime moulds is called as a) plasmodium b) myxamoeba c) sporocytes d) periplasmodium.
159.	Which one is wrongly matched? a) Gemma cups - Marchantia b) Biflagellate zoospores - Brown algae. c) Uniflagellate gametes - Polysiphonia d) Unicellular organism - Chlorella
160.	In Amoeba and Paramecium osmoregulation occurs through a) Pseudopodia b) Nucleus c) Contractile vacuole d) General surface
161.	In the light of recent classification of living organisms into three domains of life (bacteria, archaea and eukarya), which one of the following statements is true about archaea? a) Archaea completely differ from prokaryotes.

c) Archaea have some novel features that are absent in other prokaryotes and eukaryotes.

b) Archaea resembles eukarya in all respects.

d) Archaea completely differ from both prokaryotes and eukaryotes

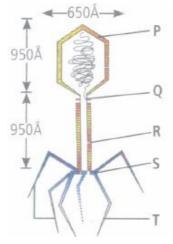
162. Select the option that correctly identifies the different genera (A. B, C and D) of Kingdom Fungi shown in figure a) b) Α Α C В D Mucor Saccharomyces Morchella Amanita MucorSaccharomycesPenicilliumAgaricus c) d) Α Α C D В C D В Rhizopus Saccharomyces Aspergillus Morchella Aspergillus Rhizopus Penicillium Agaricus 163. Which of the following classes of Kingdom Fungi are characterised by the presence of coenocytic, multinucleate and branched mycelium? a) Basidiomycetes b) Phycomycetes c) Ascomycetes d) Deuteromycetes 164. Consider following features (A) Organ system level of organisation (B) Bilateral symmetry (C) True coelomates with segmentation of body Select the correct option of animal groups which possess all the above characteristics a) Annelida, Arthropoda and Mollusca b) Arthropoda, Mollusca and Chordata c) Annelida, Mollusca and Chordata d) Annelida, Arthropoda and Chordata 165. Virion is a) nucleic acid of virus b) antiviral agent c) protein of virus d) completely assembled virus outside host. 166. Which of the following structures is not found in a prokaryotic cell? a) Ribosome b) Mesosorne c) Plasma membrane d) Nuclear envelope 167. Lichens are a well known combination of an alga and a fungus where fungus has a) A saprophytic relationship with the alga. b) An epiphytic relationship with the alga.

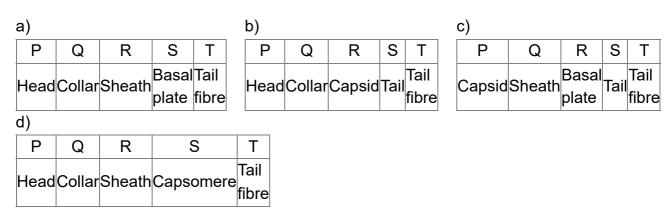
- c) A parasitic relationship with the alga. d) A symbiotic relationship with the alga.
- 168. Which of the following statements is incorrect about the Class Deuteromycetes?
 - a) They reproduce only by asexual spores (conidia).
 - b) Mycelium in these fungi is branched and septate. c) They have only parasitic forms
 - d) Examples of these fungi are Alternaria, Colletotrichum, and Trichoderma.
- 169. Dinoflagellates are mostly
 - a) marine and saprophytic b) freshwater and photosynthetic
 - c) marine and photosynthetic d) terrestrial and photosynthetic.
- 170. Difference between virus and viroid is
 - a) Difference between virus and viroid is
 - b) presence of low molecular weight RNA in virus but absent in viroid c) both (a) and (b)
 - d) none of the above

171.	Sex factor in bacteria is a) Chromosomal replicon	b) F-replicon c) RNA d) Sex-pilus
172.	Under favourable condition a) Plasmodium b) Spore	s slime moulds form
173.	The main difference in Gra	m (+) ve and (Gram (-) ve bacteria resides in their
	a) Cell wall b) Cell memb	orane c) Cytoplasm d) f1agella
174.	Mark the incorret match a) Lichen-Symbiotic associ d) Viroid-Free DNA	ation b) T ₂ phage -ds-DNA c) TMV-ss-RNA
175.		of asidomycetes b) Blue-green algae and Ascomycetes etes d) Brown algae and Phycomycetes
176.	Which one belongs to the Na) Amoeba b) Escherichia	Monera? a c) Gelidium d) Spirogyra
177.		ements is wrong for viroids? . b) They are smaller than viruses. c) They cause infections. lecular weight
178.		anisms completely lacks a cell wall? aromyces c) Blue-green algae d) Cyanobacteria
179.	a) It includes all eukaryotic	ements regarding Kingdom Plantae is correct? chlorophyll containing organisms. partially heterotrophic c) The cell wall is made up of cellulose.
180.	_	ranous extensions in same cyanobacteria are: matophores c) Chromatophores d) Heterocysts
181.	Select the pair that consists a) Mumps and small pox d) Both (a) and (b)	s of viral diseases b) Herpes and influenza c) Pneumonia and syphilis
182.	Match column I with colum	n II and select the correct option from the given codes.
	Column I	Column II
	A. Edible delicacies	(i) Penicillium, Streptomyces
	B. Experimental genetics	(ii) Neurospora crassa
		(iii) Puccinia, Ustilago
	D. Rust and smut diseases	1
	a) A-(iv), B-(ii), C-(iii), D-(i) d) A-(iv), B-(iii), C-(ii), D-(i)	b) A-(iii), B-(i), C-(ii), D-(iv) c) A-(iv), B-(ii), C-(i), D-(iii)
183.	Members of Kingdom Proti	sta are primarily
	a) parasites b) terrestrial	c) aquatic d) photosynthetic.
184.	Find odd one (w.r.t.contracta) Ciliates b) Euglena	tile vacuole) c) Dinoflagellates d) Amoeba
185.	Diatomaceous earth is use	d for all except

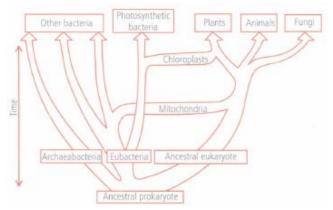
	a) polishing b) filtration of oils and syrups c) making sound and fire proof roomsd) biogas production.
186.	Which one is the wrong pairing for the disease and its causal organism?
	a) Blackrust of wheat - Puccinia graninis b) Loose smeat of wheat - Ustilago nuda
	c) Root knot of vegetables - Meloidogyne d) Late blight of potato - Alternaria solani
187.	Which of the following fungi is a parasite on mustard plant and causes the disease white rust of crucifers?
	a) Albugo candida b) Puccinia graminis tritici c) Saccharomyces cerevisiae d) Ustilago hordei
188.	Methanogens belong to :
	a) Eubacteria b) Archaebacteria c) Dinoflagellates d) Slime moulds
189.	Which of the following is a mismatched pair of protozoan group and its example? a) Amoeboid protozoan - Entamoeba histolytica b) Flagellated protozoan - Giardia intestinalis
	c) Ciliated protozoan - Paramecium caudatum d) Sporozoan - Leishmania donovani
190.	Assertion: Euglena is called as plant animal.
	Reason: Pellicle of Euglena is made up of cellulose and not protein.
	a) If both assertion and reason are true and reason is the correct explanation of assertion.
	b)
	If both assertion and reason are true but reason is not the correct explanation of assertion. c) If assertion is true but reason is false. d) If both assertion and reason are false.
191.	Gametangial copulation act of sexual reproduction occurs in
	a) Oomycetes b) ascomycetes c) Basidiomycetes d) Zygomycetes
192.	is a parasite of large intestine of human beings and causes the disease
	a) Escherichia coli, amoebic dysentery b) Entamoeba histolytica, amoebic dysentery c) Plasmodium vivax, malaria d) Trypanosoma gambiense, sleeping sickness
193.	What is true about Trypanosoma?
	a) Polymorphic b) Monogenetic c) Facultative parasite d) Non-pathogenic
194.	Which of the following combinations of characters is true for slime moulds?
	a) Parasitic, plasmodium without walls, spores dispersed by air currents
	b) Saprophytic, plasmodium with walls, spores dispersed by water
	c) Parasitic, plasmodium without walls, spores dispersed by water
	d) Saprophytic, plasmodium without walls, spores dispersed by air currents
195.	Which of the following are found in extreme saline condition?
	a) Archaebacteria b) Eubacteria c) Cyanobacteria d) Mycobacteria

196. Given is an electron microscopic structure of a T₂ bacteriophage. Identify the labelled parts P, Q, R, S and T and select the correct option.





- 197. In eubacteria, a cellular component that resembles eukaryotic cell is:
 - a) Nucleus b) Ribosome c) Plasma membrane d) Cell wall
- 198. Given diagram illustrates an evolutionary tree.



Which of the following statements can be deduced from the given evolutionary tree?

- (i) The ancestral eukaryotes were anaerobic.
- (ii) All eukaryotes possess mitochondria.
- (iii) Eubacteria and Eukaryota have a common ancestor whereas Archebacteria have a unique and independent origin.
- (iv) Mitochondria and chloroplasts have similar genomes.
- (v) Mitochondria are present in plants, animals and fungi.
- (vi) Chloroplasts and mitochondria arose as endosymbionts.
- (vii) Fungi and animals lost chloroplasts during evolution.
- a) (iii), (v) and (vi) b) (i), (v) and (vi) c) (ii), (iii), (iv) and (v) d) (i), (v), (vi) and (vii)
- 199. Malaria fever coincides with liberation of ______

a) Cryptomerozoites b) Metacryptomerozoites c) Merozoites d) Trophozoites
Which one of the following is an incorrect statement regarding mycoplasma? a) They lack a cell wall b) They are the smallest living cells. c) They cannot survive without oxygen. d) They are pathogenic in plants and animals.
Which of the following statements is correct regarding sexual reproduction in Basidiomycetes? a) Plasmogamy occurs by the fusion of two somatic cells of different strains. b) Karyogamy and meiosis occur in the basidium producing four basidiospores c) Basidiospores are exogenously produced on the basidium. d) All of these
Read the following statements and select the correct option. Statement 1: Viruses are inert crystalline structures outside a living cell. Statement 2: Viruses are cellular organisms. a) Both statements 1 and 2 are correct b) Statement 1 is correct but statement 2 is incorrect c) Statement 1 is incorrect but statement 2 is correct d) Both statements 1 and 2 are incorrect.
In bacterial chromosomes, the nucleic acid polymers are a) Linear DNA molecule b) Circular DNA molecule c) of two types - DNA and RNA d) Linear RNA molecule
Which of the following is a ciliated protozoan? a) Plasmodium vivax b) Amoeba proteus c) Paramecium caudatum d) Leishmania donovani
Which one single organism or the pair of organisms is correctly assigned to its or their named taxonomic group? a) Yeast used in making bread and beer is a fungus. b) Nostoc and Anabaena are examples of protista c) Paramecium and Plasmodium belong to the same kingdom as that of Penicillium d) Lichen is a composite organism formed from the symbiotic association of an algae and a protozoan.
Which one of the following fungi contains hallucinogens? a) Morchella esculenta b) Amanita muscaria c) Neurospora sp. d) Ustilago sp.
In general, viruses that infect plants have a) ss-RNA b) ds-DNA c) ss-DNA d) ds-RNA
Which of the following is the use of lichens in case of pollution? a) Lichens are not related with pollution b) They act as bioindicators of pollution c) They treat the polluted water d) They promote pollution

209. Refer to the given figure and select the incorrect option regarding it.



	a) It belongs to Class Basidiomycetes.b) It is a non-edible, poisonous mushroom.c) It possesses an umbrellalike basidiocarp.d) The basidiospores in it, are exogenously produced on the basidium.
210.	Which one of the following statements is incorrect? a) Yeastis unicellular and useful in fermentation b) Penicillium is multicellular and produce antibiotics c) Neurospora is used in the study or biochemical genetics. d) Morels and truffles are poisonous mushrooms
211.	Which of the following secretes toxins during storage conditions of crop plants? a) Aspergillus b) Penicillium c) Fusarium d) Colletotrichum
212.	Mycoplasmas are classified under which of the following kingdoms? a) Monera b) Protista c) Fungi d) Plantae
213.	Lichens indicate SO ₂ pollution because they a) Show association between algae and fungi b) Grow faster than others c) Are sensitive to SO ₂ d) Flourish in SO ₂ rich environment
214.	What is common about Trypanosoma, Noctiluca' Monocystis and Giardia? a) They have flagella. b) They produce spores. c) These are all parasites. d) These are all unicellular protists.
215.	Photosynthetic protistans are a) Slime moulds and ciliates b) Dinoflagellates and zooflagellates c) Dinoflagellates and protozoans d) Euglenoids and protozoans
216.	Absorptive heterotrophic nutrition is exhibited by a) Algae b) Fungi c) Bryophytes d) Pteridophytes
217.	Trypanosoma belongs to class a) Sarcodina b) Zooflagellata c) Ciliata d) Sporozoa
218.	Secondary mycelium in the life cycle of club fungi, represents a) Haplophase b) Dikaryophase c) Diplophase d) Coenocytic phase
219.	Ergot of rye is caused by a species of a) Uncimula b) Ustilago c) Claviceps d) Phytophthora.
220.	In five-kingdom classification system, the kingdom that includes the blue-green algae nitrogen-fixing bacteria, and methanogenic archaebacteria is a) Plantae b) Fungi c) Protista d) Monera.
221.	Protistan genome has a) Membrane bound nucleoproteins embedded in cytoplasm b) Free nucleic acid aggregates

	c) Gene containing	nucleop	roteins co	ndens	sed togethe	er in loose ma	ISS
	d) Nucleoprotein in	direct co	ontact with	n cell s	substance		
222.	Which one of the fo	llowing i	microorga	nisms	is used for	production o	of citric acid in industries?
	a) Penicillium citrini	um b)	Aspergillu	s nige	r c) Rhizo	opus nigrican	S
	d) Lactobacillus bul	garicus					
223.	Study the following	table ca	refully and	d seled	ct the corre	ct option for	1, 2, 3 and 4
	Characters	Monera	Protista		Fungi	Plantae	Animalia
	Cell type	1	Eukaryoti	С	Eukaryotic	Eukaryotic	Eukaryotic
	Cell wall	2	Present in some	า	Present	Present	Absent
	Nuclear membrane	Absent	Present		Present	Present	3
	Body organisation	Cellular	Cellular		4	Tissue/organ	Tissue/organ/organ system
	a)			b)			
	1 2 3	3 4		1	2	3 4	4
	Prokaryotic Absent/	AbsentU	nicellular	Prol	karyotic Pre	esentPresentI	Multicellular
	c)	1.		d)	1-		
	1 2 3			1	2	3 4	
	Eukaryotic Absent A	bsentUr	nicellular	Euka	aryotic Abse	entAbsentUni	cellular
224.		•			_	•	re of a typical bacterial cell?
	a) Cells possess na						
	b) Cells are surrour	-				_	nous sheath.
	c) Cells possess we		•			l organelles.	
	d) Ribosomes in the						
225.	Which of the followi				=	_	
		ia ainotia	agellates	b) E	ugienolas	c) Silme mo	ulds and protozoans
000	d) All of these						
226.	Puccinia forms			h) I	Iradia and t	talia an whaa	t loovee
	a) Uredia and aeciac) Uredia and aecia			-			
227	•		-	,		i pycilia oli be	albely leaves
221.	Which one of the fo a) Physarum b) T	•				700US	
000			,		,	•	
228.	Red tides in warm of a) dinoflagellates			•			me moulds.
229.	Association betwee	n mycol	oiont and l	phycol	biont are fo	ound in	
	a) mycorrhiza b) r	root c)	lichens	d) BG	A.		
230.	The part of life cycle Anopheles is		•	site Pla	asmodium	vivax, that is _l	passed in female
	a) Sexual cycle bd) Post-erythrocytic	•	-	schisc	gony c) E	Exo-erythrocy	tic schisogony
231.	Decomposers are of	organism	s that				
	a) Elaborate chemi					ssues	
	b) Operate in living						s step by step

	c) Attack and kill plants as well as animals
222	d) Operate in relay terms, simplifying step by step the organic constituents of dead body
232.	Cyanobacteria are used in agricultural fields for crop improvement because they cause a) N ₂ fixation b) algal blooms c) photosynthesis d) all of these
233.	Assertion: Cyanobacteria are photosynthetic autotrophs.
	Reason: Cyanobacteria have chlorophyll a and b similar to green plants.
	a) If both assertion and reason are true and reason is the correct explanation of assertion.
	b) If both assertion and reason are true but reason is not the correct explanation of assertion.
	c) If assertion is true but reason is false. d) If both assertion and reason are false.
234	Fungi producing 8 spores in a sac belong to the Class
201.	a) Phycomycetes b) Ascomycetes c) Basidiomycetes d) Deuteromycetes.
235.	The cyanobacteria are also referred to as
	a) Protists b) Golden algae c) Slime moulds d) Blue green algae
236.	Incorrect statement in relation to cyanobacteria is
	a) Possess chlorphyll a similar to higher plants b) Are unicellular, colonial or filamentous
	c) Form blooms in polluted water bodies and possess a gelatinous sheath
	d) Can fix atmospheric nitrogen in specialised cells called hormogonia
237.	Protists obtain food as
	a) Photosynthesisers, symbionts and holotrophsb) Photosynthesisersc) Chemosynthesisersd) Holotrophs
220	
230.	Mycorrhiza represents a) Antagonism b) Endemism c) Symbiosis d) Parasitism
239.	The Kingdom Protista forms a link with Kingdom
	a) Plantae b) Fungi c) Animalia d) all of these.
240.	Study the given figure of structure of TMV (Tobacco Mosaic Virus) and select the option that
	correctly identifies the labellings A and B
	Central lumen
	A
	B

	a) b) c) d)
	A B A B A B
	dsRNA Tail fibres ssDNA Capsomeres dsDNA Capsomeres ssRNA Capsomeres
241.	The wonder drug, penicillin is extracted from which of the following species of Penicillium ?
	a) Penicillium notatum b) P.chrysogenum c) Both (a) and (b) d) None of these
242.	Cyanobacteria are classified under which of the following kingdoms?

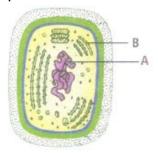
243.	Which of the following environmental conditions are essential for optimum growth of Mucor on a piece of bread? A. Temperature of about 25°C B. Temperature of about 5° C C. Relative humidity of about 5%
	D. Relative humidity of about 95% E. A shady place F. A brightly illuminated place Choose the answer from the following options:
244	a) A, D and E only b) B, D and E only c) B, C and F only d) A, C and E only
244 .	Interferons are a) Antiviral proteins b) Antibacterial proteins c) Anticancer proteins d) Complex proteins
245.	Reserve food material in photosynthetic protistan having silicified cell wall is a) Paramylum b) Laminarin c) Chrysolaminarin d) Starch
246.	Amoebiasis is prevented by a) Eating balanced food b) Eating plenty of fruits c) Drinking boiled water d) Using mosquito nets
247.	Select the correct statement regarding heterocysts a) These are present in some filamentous cyanobacteria such as Nostoc and Anabaena . b) These cells are specialised to perform N ₂ -fixation c) These cells contain enzyme nitrogenase d) All of these
248.	Escherichia coli is used extensively in biological research as it is a) Easily cultured b) Easily available c) Easy to handle d) Easily rnultiplied in host
249.	Which of the following groups of organisms are included under chrysophytes? a) Diatoms and desmids (golden algae) b) Diatoms and dinoflagellates c) Euglenoids d) Slime moulds
250.	Assertion: Methanogens are present in the gut of several ruminant animals. Reason: Methanogens help in the production of methane from dung of ruminants. a) If both assertion and reason are true and reason is the correct explanation of assertion. b)
	If both assertion and reason are true but reason is not the correct explanation of assertion. c) If assertion is true but reason is false. d) If both assertion and reason are false.
251.	Which of the following is correct about viroids? a) They have RNA with protein coat. b) They have free RNA without protein coat. c) They have DNA with protein coat. d) They have free DNA without protein coat.
252.	Photosynthetic pigments of cyanobacteria (blue green algae) include a) chlorophyll a b) carotenes c) xanthophylls d) all of these.
253.	Which of the following statements regarding Kingdom Animalia is incorrect? a) It includes heterotrophic, unicellular eukaryotic organisms. b) The members of this kingdom lack cell walls. c) The mode of nutrition is holozoic. d) The sexual reproduction in its members is by copulation of male and female.
254.	Infoldings of plasma membrane which help in DNA replication is

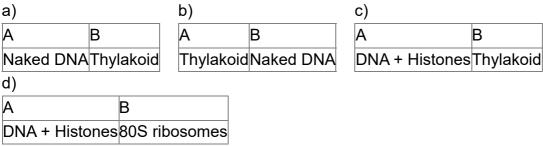
	a) Plasmids b) Nucleoid c) Mesosome d) Slime layer
255.	Tobacco Mosaic Virus (TMV) genes are
	a) Double stranded RNA b) Single stranded RNA c) Polyribonucleotides
	d) Proteinaceous
256.	What is true for cyanobacteria?
	a) Oxygenic with nitrogenase b) Oxygenic without nitrogenase
	c) Non-oxygenic with nitrogen d) Non-oxygenic without nitrogenase
257.	The chief advantage of encystment to an Amoeba is
	a) The chance to get rid of accumulated waste products.
	b) The ability to survive during adverse physical conditions.
	c) The ability to live for sometime without ingesting food.
	d) Protection from parasites and predators.
258.	Match column I with column II and select the correct option from the given codes
	Column I Column II
	A. Monera (i) Chlamydomonas, Solanum
	B. Protista (ii) Bacillus, Oscillatoria
	C. Fungi (iii) Euglena, Trypanosoma
	D. Plantae (iv) Mucor, Penicillium
	E. Animalia(v) Felis, Panthera
	a) A-(iii), B-(ii), C-(iv), D-(i), E-(v) b) A-(iii), B-(ii), C-(iv), D-(i), E-(v)
	c) A-(ii), B-(iii), C-(i), D-(iv), E-(v) d) A-(ii), B-(v), C-(i), D-(iv), E-(iii)
259.	Assertion: Phycomycetes are commonly known as sac fungi.
	Reason: In Phycomycetes, ascopore (sexual spores) are produced endogenously in sac like
	asci.
	a) If both assertion and reason are true and reason is the correct explanation of assertion.
	b)
	If both assertion and reason are true but reason is not the correct explanation of assertion.
	c) If assertion is true but reason is false. d) If both assertion and reason are false.
260.	Which one of the following statements is wrong?
	a) Phycomycetes are also called algai fungi
	b) Cyanobacteria are also called blue-green algae
	c) Golden algaeare are also called desmids d) Eubacteria are also called false bacteria
261.	Assertion: Mycoplasmas are pathogenic in animals and plants.
	Reason: Mycoplasmas lack cell wall and can survive without oxygen.
	a) If both assertion and reason are true and reason is the correct explanation of assertion.
	b) If both apportion and reason are true but reason is not the correct evalenation of apportion
	If both assertion and reason are true but reason is not the correct explanation of assertion. c) If assertion is true but reason is false. d) If both assertion and reason are false.
000	,
262.	Which among the following are the smallest living cells, known without a definite cell wall,
	pathogenic to plants as well as animals and can survive without oxygen?
000	a) Bacillus b) Pseudomonas c) Mycoplasma d) Nostoc
263.	The site of respiration in bacteria is
	a) Episome b) Mesosome c) Ribosome d) Microsome

264.	Which of the following characters served as the criteria for five kingdom system of classification as used by R.H. Whittaker?
	a) Cell structure and thallus organisation b) Mode of nutrition and reproduction
	c) Phylogenetic relationships d) All of these
265.	The plasmid
	a) Helps in respiration b) Genes found inside nucleus
	c) Is a component of cell wall of bacteria
	d) Is the genetic part in addition to DNA in microorganisms
266.	The most throughly studied fact of the known bacteriaplant interactions is the
	a) Cyanobacterial symbiosis with some aquatic ferns
	b) Gall formation on certain angiosperms by Agrobacterium.
	c) Nodulation of Sesbania stems by nitrogen fixing bacteria.
007	d) Plant growth stimulation by phosphate-solubilising bacteria.
267.	Which one of the folloting matches is correct :
	a) Agaricus - Parasitic fungus - Basidiomycetesb) Phytophthora - Aseptate mycelium - Basidiomycetes
	c) Alternaria - Sexual reproduction absent - Deuteromycet
	d) Mucor - Reproduction by conjugation - Ascomycetes
268.	Genophore bacterial genome or nucleoid is made of
	a) Histones and non-histones b) RNA and histones c) A single double stranded DNA
	d) A single stranded DNA
269.	In plants, mosaic formation, leaf rolling and curling, yellowing of plant parts, vein clearing,
	dwarfing and stunted growth, necrosis etc. are the symptoms of
	a) bacterial diseases b) mycoplasmal diseases c) viral diseases d) fungal diseases
270.	Select the correct combination of the .statements (a - d) regarding the characteristics of certain organisms.
	(1) Methanogens are Archaebacteria which produce methane in marshy areas
	(2) Nostoc is filamentous blue-green alga which fixes atmospheric nitrogen.
	(3) Chemosynthetic autotrophic bacteria synthesize
	(4) Mycoplasma lack a cell wall and can survive without oxygen.
	a) (3) b) (1), (2), (3) c) (2), (3), (4) d) (1), (2), (4)
271.	The given organism belongs to Class
	a) Phycomycetes b) Basidiomycetes c) Ascomycetes d) Deuteromycetes.
272.	Viruses are non-cellular organisms but replicate themselves once they infect the host cell. To

- which of the following kingdom do viruses belong to?
 a) Monera b) Protista c) Fungi d) None of these
- 273. Which statement is wrong for viruses?

- a) All are parasites b) All of them have helical symmetry c) They have ability to synthesize nucleic acids and proteins d) Antibiotics have no effect on them 274. Bacteria lack alternation of generation because there is a) Neither syngapy nor reduction division b) Distinct chromosomes are absent c) No conjugation d) No exchange of genetic material 275. The cell wall is composed of two thin overlapping shells which fit together like a soap case in a) desmids b) diatoms c) dinoflagellates d) slime moulds. 276. A dikaryon is formed when c) cytoplasm does not fuse d) none of the above
- - a) meiosis is arrested b) the two haploid cells do not fuse immediately
- 277. If all ponds and puddles are destroyed, the organism likely to be destroyed is
 - a) Leishmania b) Trypanosoma c) Ascaris d) Plasmodium
- 278. Select the incorrect statement.
 - a) Most plant viruses are RNA viruses b) Bacteriophages possess dsDNA.
 - c) Virus having an arthropod as vector is called as arbovirus.
 - d) Prions possess only nucleoid and no proteins
- 279. Highly resistant nature of endospore is due to the presence of
 - a) Dipicolinic acid and peptidoglycan in spore coat b) Peptidoglycon in exosporium
 - c) Dipicolinic acid and Ca²⁺ in cortex d) Dipicolinic acid and Ca²⁺ in cell membrane
- 280. Given figure represents the ultrastructure of a typical cyanobacterial cell. Identify the different parts and select the correct option for A and B.





281. Which group of organisms is represented by the given figure?



a) Diatoms b) Dinoflagellates c) Bacteria d) Euglenoids

282.	Members of Phycomycetes are found in (i) aquatic habitats (ii) on decaying wood (iii) moist and damp places (iv) as obligate parasites on plants. Choose from the following options. a) None of the above b) (i) and (iv) c) (ii) and (iii) d) All of the above
283.	Which of the following statements is not correct regarding the Class Ascomycetes? a) Conidia are the asexual spores produced endogenously on conidiophores. b) Ascospores are the sexual spores produced endogenously in asci. c) Aspergillus, Neurospora and Claviceps are Ascomycetes fungi. d) Mycelium is generally branched and septate in Ascomycetes.
284.	The sporozoa are all internal that typically have an infective cyst stage in their life cycle. An example of sporozoa is the genus which causes malaria. a) ciliates, Plasmodium b) flagellates, Plasmodium c) parasites, Plasmodium d) parasites, Trypanosoma
285.	Assertion: In lichens, mycobiont and phycobiont are symbiotically associated in which algae is predominant and fungi is a subordinate partner. Reason: The fungus provides food and alga protects the fungus from unfavourable conditions. a) If both assertion and reason are true and reason is the correct explanation of assertion. b) If both assertion and reason are true but reason is not the correct explanation of assertion.
286.	c) If assertion is true but reason is false. d) If both assertion and reason are false. Absorption of DNA of dead relatives from surrounding medium by a living bacterium is called
	a) Penicillin b) Streptomycin c) Terramycin d) Chloramphenicol
287.	Select the mismatch. a) Gas vacuoles - Green bacteria Cells b) Large central vacuoles - Animal cells c) Protists - Eukaryotes d) Methanogens - Prokaryotes
288.	Viroids differs from viruses in having: a) DNA molecules without protein coat. b) DNA molecules without protein coat c) RNA molecules with protein coat. d) RNA molecules without protein coat
289.	A slide under microscope shows following features: (i) Unicellularity (ii) Well defined nucleus (iii) Biflagellate-one flagellum lying longitudinally and the other transversely What would you identify it as? a) Protozoan b) Bacterium c) Euglenoid d) Dinoflagellate
290.	Which of the following shows coiled RNA strand and capsomeres?
291.	a) Polio virus b) Tobacco mosaic virus c) Measles virus d) Retrovirus How many organisms in the list given below are autotrophs? Lactobacillus, Nostoc, Chara, Nitrosomonas! Nitrobacter, Streptomyces. Saccharomyces, Trypanosomes, Porphyra, Wolffia. a) Four b) Five c) Six d) Three
292.	The causative agent of mad-cow disease is a

- a) Prion b) Worm c) Bacterium d) Virus
- 293. Who discovered Plasmodiurn in RBCs of human beings?
 - a) Ronald Ross b) Mendel c) Laveran d) Stephen
- 294. Identify the given figure and select the correct option.
 - a) It is photosynthetic protist. b) It is saprophytic protist. c) It is chemosynthetic bacteria
 - d) Both (a) and (b)
- 295. ______is the most common method of reproduction in bacteria.
 - a) Binary fission b) Endospore formation c) Conjugation d) Sexual reproduction

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