Exercise-1

 $\mathbf{\hat{z}}$  Marked Questions are for Revision Questions.

E

### **ONLY ONE OPTION CORRECT TYPE**

		SECTION - A # KI	NGDOM - MONERA	۱.
1.১	During conjugation, ba	cteria attach by means o	f.	
	(1) Flagella	(2) Pili	(3) Cilia	(4) Hair
2.	A parasite which becor (1) Obligate parasite (3) Obligate saprophyte	nes saprophytic in the at	osence of host is called (2) Facultative parasite (4) Facultative saproph	
3.24	Ribosomes of Nostoc a (1) 50 S	re (2) 60 S	(3) 70 S	(4) 80 S
4.	All bacterial cells get st (1) Mercuric chloride (3) Crystal violet + iodir		(2) Crystal violet (4) Safranin	
5.১	Mucopeptide is abunda (1) Cyanobacteria	nt in cell wall of (2) Gram (+) bacteria	(3) Gram (-) bacteria	(4) Bacteriophage
6.24	-	gy by oxidation of inorga (2) Chemo-organotropl		(4) Photo-organotrophs
7.a	Which one does not ev (1) Photosynthetic bact (3) Green algae		(2) Blue Green algae (4) Autotrophic plants	
8.24	Peritrichous bacteria ha (1) All over the body	ave flagella (2) At one end	(3) Both ends	(4) None
9.海	Prokaryotic genetic ma (1) Linear DNA + histor (3) Linear DNA without	nes	(2) Circular DNA + hist (4) Circular DNA witho	
10.১		is differs from photosyntl (2) Number of phases	hesis of others in (3) Type of reductant	(4) All the above
11.ര	Nitrogen fixation is perf (1) Green algae and fu (3) Legumes and cerea	ngi	(2) Ferns and cycads (4) Blue-green algae a	nd bacteria
12.2	The bacterium ( <i>Clostric</i> (1) Obligate aerobe (3) Facultative anaerob	<i>dium botulinum</i> ) that cau e	ses botulism is (2) Facultative aerobe (4) Obligate anaerobe	
13.	Bacterium associated v (1) Rhizobium	vith legume roots is (2) Nostoc	(3) Spirogyra	(4) Clostridium

14.2	Bt gene occurs in				
	<ul><li>(1) Bacillus thuringiens</li><li>(3) Agrobacterium tum</li></ul>		(2) Escherichia coli (4) Rhizobium leguminosarum		
15.ъ	<ul><li>(a) Bacteria are the ma</li><li>(b) Bacteria occur almo</li><li>(c) Bacteria are the mo</li></ul>	statement is/are correct ain members of the Kingo ost everywhere ost abundant micro organ ome are present in bacte (2) b & d	dom Monera iism	(4) b, c, d	
16.2	<ul><li>(a) Archaebacteria diffe</li><li>(b) Feature of cell wall</li><li>(c) Methanogens are p</li><li>(d) These are oldest of</li></ul>	is responsible for their so resent in the guts of seve	having a different cell wa urvival in extreme conditi eral ruminant animals su	ions.	
		SECTION - B # KII	NGDOM - PROTIST	A	
1.a	The diatomaceous ear (1) The diatomaceous (3) It is a bad conducto	earth is very cheap	ooilers and steam pipes b (2) It is a good conduct (4) It is composed of ca	tor of heat	
2.	Protists which are diplo (1) Zygotic meiosis	oid reproduce sexually by (2) Cyst formation	y the process of (3) Binary fission	(4) Gametic meiosis	
3.	Diatoms are also know (1) Blue-green algae	n as (2) Red algae	(3) Golden brown alga	e (4) Green algae	
4.	Formation of diatomac	eous earth has occured ( (2) Cytoplasm	due to remains of the foll (3) Chloroplast	owing part of diatoms (4) None of the above	
5.24	The protists in which co (1) Dinoflagellates	ell size decreases with e (2) Diatoms	ach division are (3) Slime molds	(4) Radiolarians	
6.æ	Bivalved siliceous shel (1) Diatoms	l of frustule occurs in (2) Radiolarians	(3) zooflagellates	(4) Archaebacteria	
7.æ	Rejuvenescent cells (a (1) Diatoms	uxospores) occur in (2) Radiolarians	(3) Bacteria	(4) Virus	
8.	Diatoms do not decay (1) They are non living (3) They have siliceous		algae because (2) They have waterpro (4) They have mucilagi		
9.2	PSP (Paralytic shellfish (1) <i>Gonyaulax</i>	n poisoning) is connected (2) <i>Ceratium</i>	d with (3) <i>Noctiluca</i>	(4) Glenodinium	

10.১	Fire algae are	members of			
	(1) Phaeophyc	eae (2)	Dinophyceae	(3) Rhodophyceae	(4) Bacillariophyceae.
11.	Cod liver oil is				
	(1) Diatoms	(2)	Dinoflagellates	(3) Euglenoids	(4) All the above
12.2	Mesokaryon is			(2) Nuclearid with som	
	(1) A nucleus li (3) A nucleus v		ed chromosomes	(2) Nucleoid with con (4) A nucleoid with dia	densed chromosomes stinct chromosomes
40.	. ,				
13.১	In dinophyceae (1) Anterior	e the two hag	jella are	(2) One transverse ar	nd other vertical
	(3) Lateral			(4) Posterior.	
14.১	<ul> <li>Photosynthetic protists belong to <ul> <li>(1) Bacillariophyceae</li> <li>(2) Bacilariophyceae and euglenophyceae</li> <li>(3) Bacillariophyceae, euglenophyceae and dinophyceae</li> <li>(4) Zooflagellates.</li> </ul> </li> </ul>				
15.১	Food reserve of	of diatoms is			
	(1) Starch	(2)	Chrysolaminarin	(3) Paramylon	(4) Glycogen
16.2	Mixotrophic nu	trition is pres	sent in		
	(1) Navicula	(2)	Amoeba	(3) Paramecium	(4) Euglena
17.১	<ul> <li>Protistans are connecting link between</li> <li>(1) Plants and animals</li> <li>(2) Fungi and plants</li> <li>(3) Monoerans and kingdoms of multicellular organisms</li> <li>(4) Fungi and animals.</li> </ul>				
18.2	Which stateme	ent is/are <b>wro</b>	ong with respect to	kingdom protista.	
	., .	-	otes are placed un	•	
			kingdom are not w		protozoans are included under
	protista.		genated, Euglenoi		protozoans are included under
	.,	-		s, heterotrophic, nonvaso	•
	(1) only (ii)	(2)	only (iii)	(3) only (iv)	(4) None of these
19.১	Match Column	I with Colum	n II		
	Column-l			Column-II	
	(i) Chrysophyte (ii) Dinoflagella			<ul><li>(a) Absence of cell wa</li><li>(b) Golden algae</li></ul>	dli
	(iii) Euglenoids			(c) Gonyaulax	
	(iv) Slime moul			(d) Saprophytic protis	sts.
	(1) (i) a	(ii) b,	(iii) c,	(iv) d	
	(2) (i) b	(ii) c,	(iii) a,	(iv) d	
	(3) (i) b	(ii) c,	(iii) d,	(iv) a	
	(4) (i) c	(ii) a,	(iii) b,	(iv) d	

20.১				ying twigs and leaves engulfing
	-		y form an aggregation c	alled(ii)which may
	grow and spread over s			
	In above question (i) &	.,		
	(1) (i) Autotrophic,		smodium 	
	(2) (i) Chemosynthetic		smodium	
	(3) (i) Saprophytic,		/cobiont	
	(4) (i) saprophytic,	(ii) <i>pla</i> s	smodium	
21.æ	Majority of Euglenoids	are Fresh water organi	sms found in stagnant	water. Instead of cell wall, they
	have a protein rich l	ayer called(a)	which makes t	heir body flexible. They have
	(b)flagella	a; (a) & (b) are respective	ely.	
	(1) (a) Pellicle	(b) One		
	(2) (a) Pellicle,	(b) Three		
	(3) (a) Gelatinous shea	th, (b) Two		
	(4) (a)Pellicle	(b) Two		
22.	Contractile vacuales in	protozoans primarily ser	we the function of	
22.	(1) Excretion	protozoans primarily ser	(2) Water circulation	
			. ,	
	(3) Osmoregulation		(4) Water absorption	
23.	Pseudopodia are comn	nonly formed in		
	(1) Amoeba only		(2) A variety of protozo	ans only
	(3) A variety of protozo	ans and leucocytes	(4) Amoeba and leucoo	cytes only
24.	Which class of Protozo	a includes all parasitic fo	nms?	
27.	(1) Mastigophora	(2) Ciliata	(3) Sporozoa	(4) Sarcodina
			(3) 30010208	
25.	Locomotory organs are	absent in		
	(1) Sporozoa	(2) Ciliates	(3) Rhizopoda	(4) Zooflagellates
26.	While doing some ex	periment with Amoeba	proteus in a culture r	nedium, it was found that the
20.	-	-	-	ganelles showed normal activity.
		ned most probably due to		
	(1) Change in the temp	erature of the medium		
	(2) Change in the pH o	f the medium		
	(3) Dilution of the medi			
	(4) Dilution of the medi	•		
27.	In Amoeba, the repro-	duction in unfavourable	condition, three-layered	I cyst structure formed. This is
		(2) Free votes and	(2) Conjugation	(1) Deceneration
	(1) Sporulation	(2) Encystment	(3) Conjugation	(4) Regeneration
28.	Entamoeba histolytica	is found in man in		
	(1) Colon	(2) Small intestine	(3) Oral cavity	(4) Stomach
29.		v soveral mothods Wh	hich protozoon roproduc	
<b>L</b> J.	conjugation?	y several methous. Wr		ces both by binary fission and
	(1) Amoeba	(2) Euglena	(3) Monocystis	(4) Paramoecium
	(1)/11/0000		(0) 1001009000	

30.	Macro and micronuclei are the characteristic (1) <i>Paramoecium</i> and <i>Vorticella</i> (3) <i>Hydra</i> and <i>Balantidium</i>		feature of (2) <i>Opalina</i> and <i>Nyctotherus</i> (4) <i>Vorticella</i> and <i>Plasmodium</i>		
31.	Which one of the follo (1) exocytosis	wing is not involved in the (2) phagocytosis	e nutrition of <i>Amoeba</i> ? (3) saprotrophy	(4) intracellular digestion	
32.	Common feature of <i>E</i> (1) binary fission	uglena, Amoeba, Trypano (2) multiple fission	oso <i>ma</i> and <i>Entamoeba</i> is (3) holozoic nutrition	(4) contractile vacuole	
33.	<ul><li>(1) Tse-tse fly spreads</li><li>(2) Sand fly spreads s</li><li>(3) <i>Trichonympha</i> a sy</li></ul>		nd in the gut of termite		
34.	Slipper animalcule is (1) <i>Paramoecium</i>	(2) Trypanosoma	(3) Entamoeba	(4) Protozoa	
		SECTION - C #	KINGDOM-FUNGI		
1.	The fungi growing on (1) Coprophilous	faecal matter are called (2) Saprophyte	(3) Parasite	(4) Symbiont	
2.	Which of these is unic (1) <i>Yeast</i>	ellular fungi (2) <i>Synchytrium</i>	(3) (1) and (2) both	(4) None of these	
3.24	Absorptive nutrition is (1) Plants	found in (2) Fungi	(3) Bacteria	(4) All the above	
4.24	What happens in dikaryotisation (1) Fusion of two nuclei in cell (2) Separation of two nuclei in cell (3) Transfer of nucelus from one type of cell to another type of cell (4) Each cell of the hyphae becoming dikaryotic				
5.	The ascospores are th (1) Asexual	ne type of spores (2) Sexual	(3) Vegetative	(4) None of these	
6.24	Sex organs of advanc (1) Well developed	ed fungi are - (2) Under developed	(3) Absent	(4) Very complex	
7.2a	Where the basidiospores are formed (1) In basidium (Endogenous) (3) In basidiocarp		(2) On basidium (exogenous) (4) On basidiocarp		
8.	<ul> <li>(3) In basidiocarp</li> <li>(4) On basidiocarp</li> <li>Which of the following statement is false about conidia</li> <li>(1) Conidia are formed in basipetal/acropetal succession</li> <li>(2) Conidia are non motile</li> <li>(3) Conidia are generally unicellular sometimes multicelled</li> <li>(4) Conidia are sexual reproductive structures</li> </ul>				

9.2	The classification of fungi is mainly based on (1) Septation in mycelium (3) Types of spores		(2) Fruiting body (4) All the above		
10.১	In which of the following (1) Zygomycetes	g fungal groups the cell ( (2) Basidiomycetes	wall is made up of cellulc (3) Oomycetes	ose (4) Ascomycetes	
11.24	The existence of <i>Pinus</i> (1) <i>Boletus</i>	plants is due to (2) <i>Agaricus</i>	(3) Aspergillus	(4) None of these	
12.^浊	Which of these are pois (1) <i>Helvella</i>	sonous fungi (2) <i>Amanita</i>	(3) Agaricus	(4) Fusarium	
13. ๖	What is the characterst (1) Absence of true neo (3) Absence of sexual r		ungus (2) Absence of cell wall (4) Absence of fructification		
14.24	Which fungus is import (1) <i>Rhizopu</i> s	ant for making bread (2) <i>Mucor</i>	(3) Yeast	(4) Neurospora	
15.2	Which of these is used (1) <i>Yeast</i>	in making wine (2) Bacteria	(3) Both of above	(4) False <i>yeast</i>	
16.24	Which enzyme in <i>Yeas</i> (1) Zymase	<i>t</i> is responsible for ferme (2) Protease	entation (3) Lipase	(4) Invertase	
17.24	Penicillin is obtained from (1) <i>Penicillium notatum</i>		(3) P. fumigatus	(4) All the above	
18.১	Late blight of potato dis (1) <i>Peranospora</i> (3) <i>Synchytrium endob</i>		(2) Phytophthora infestans (4) Alternaria solani		
19.๖	Rust of Wheat is due to (1) <i>Albugo candida</i> (3) <i>Cephaleuros virisce</i>		(2) <i>Puccinia graminis</i> (4) None of the above		
20.>	Which of these is called (1) <i>Puccinia</i>	d polymorphic fungus (2) <i>Ustilag</i> o	(3) Agaricus	(4) Claviceps	
21.24	<ul><li>(1) Alternaria solani - E</li><li>(2) Phytophthora infest</li></ul>	arly blight of potato ans - Late blight of potat pryzae - Brown leaf spot		of Ireland	
22.১	Due to which disease the first of wheat (1) Black rust of wheat (3) Brown leaf spot of r	he famous Bengal famin ice	e occured (2) Smut of wheat (4) Black wart disease	of potato	
23.æ	In which fungal group c (1) Ascomycetes	lamp connections are fo (2) Basidiomycetes	und (3) Both of above	(4) Deuteromycetes	

#### **BIOLOGICAL CLASSIFICATION**

24.æ	Which fungus is called (1) <i>Lycoperdon</i>	l as puff ball (2) <i>Lycopodium</i>	(3) Polyporus	(4) Lycopersicum
25.æ	Which is called as the (1) <i>Penicillium</i>	weed of laboratory (2) <i>Rhizopus</i>	(3) Mucor	(4) Aspergillus niger
26.2	What is wrong about <i>N</i> (1) Genetic fungus (3) Bakery fungus	leurospora crassa	(2) Drosophila of plant kingdom (4) None of the above	
27.	<ul> <li>Which is called as budding fungus</li> <li>(1) Synchytrium</li> <li>(3) Schizosaccaromyces</li> </ul>		(2) Yeast (4) Neurospora	
28.2	Which are the pioneer (1) Lichen	s of rock vegetation (2) Algae	(3) Herbs	(4) Grasses
29.১	<ul> <li>(A) Cell wall of Fungi consists of chitin or fungal cellulose.</li> <li>(B) Most fungi are heterotrophic</li> <li>(C) Fungi can also live as symbionts in association with algae as lichens and with roots of higher p as mycorrhiza</li> <li>(D) Fusion of two nuclei called plasmogamy</li> <li>How many of the above statement are correct?</li> </ul>			ns and with roots of higher plants (4) one
30.				
	(1) A & B	(2) B & C	(3) A & C	(4) only C

31. Match the classes of fungi given in Column I with their common names given in Column II

Column I		Column II				
(i) Phycom	ycetes	(a) Imperfect fungi				
(ii) Ascomy	cetes	(b) Club fungi				
(iii) Basidiomycetes		(c) Sac fungi				
(iv) Deuteromycetes		(d) Algal fungi				
Options -	Options -					
(1) (i) a	(ii) b	(iii) c	(iv) d			
(2) (i) d	(ii) c	(iii) b	(iv) a			
(3) (i) c	(ii) b	(iii) d	(iv) a			
(4) (i) b	(ii) a	(iii) c	(iv) d			

### SECTION - D # VIRUS

1.24	Which of the following is (1) Porifers	s acellular organism with (2) Bacteria	out cell organisation (3) Viruses	(4) Rickettsia		
2.2	TMV has	(_)		())		
2.0	(1) dsDNA + Protein	(2) ssRNA + Protein	(3) ssDNA + Protein	(4) dsRNA + Protein		
3.24	Chemically viruses are (1) carbohydrates	(2) glycoproteins	(3) lipopolysaccharides	(4) nucleoproteins		
4.2	<ul> <li>Pick up the correct statement about viruses.</li> <li>(1) They are neither living nor non living and transitional/midway between non livings and livings.</li> <li>(2) They resemble the living organisms in the intracellular state and non living chemicals ir extracellular state.</li> <li>(3) They are obligate intracellular parasites at genetic level, have either DNA or RNA and repro inside the host only.</li> <li>(4) All are correct.</li> </ul>					
5.æ	Mycoplasma differs from (1) lacking cell wall (2) occurring in nature (3) filterable through Ch (4) having both DNA an	amberland's bacteria pro	oof filters			
6.24	Who is considered to be (1) Ivanowski	e the father of virology? (2) Stanley	(3) Beijerinck	(4) Pasteur		
7.2a	What is absent in viruse (1) DNA (3) Proteins and enzyme		(2) RNA (4) Cytoplasm & membranes			
8.2	Viruses usually infect al	l parts of plants except				
	(1) shoot appendages	(2) root apex	(3) shoot apex	(4) phloem		
9.2	HIV (Human immunode form of two molecules of	• • •	AIDS contains a protein o	coat and genetic material in the		
	(1) dsDNA	(2) ssRNA	(3) ssDNA	(4) dsRNA		
10.๖	TMV has a size of (1) 50 x 10 nm	(2) 100 x 20 nm	(3) 300 x 18 nm	(4) 300 x 10 nm		
11.	Viruses cannot multiply of their own or be grown in vitro on artificial medium because they (1) are dead (2) donot have sex organs and gametes (3) lack genetic material (4) lack cellular machinery to use their own genetic material					
12.๖	TMV is a rod like larges (1)12	t plant ribovirus. The nui (2) 2130	mber of capsomeres in it (3) 6500	s capsid is (4) 16		

13.১	An enzyme found at t ( 1) protease	the tip of tail of bacterioph (2) lysozyme	ages is (3) replicase	(4) reverse transcriptase
14.2	DNA in bacteriophag (1) head	es is double stranded (ds (2) tail	) and linear and lies in (3) head and tail both	(4) tail tube
15.æ	.,	hage virus enters in bacte of phage virus enters in ho		
16.≿	Viruses are haploid h (1) retroviruses	aving only one genome. (2) reoviruses	Which group of viruses is (3) riboviruses	diploid and have two genomes (4) zoophages.
17.๖	A retrovirus on inject called (1) cDNA(copy DNA) (3) r-DNA (reverse Di		starts synthesing a singl (2) sDNA (synthetic DN (4) reverse RNA	e (–) ve strand of DNA which is NA)
18.24	Double stranded DNA (1) TMV (3) Banana bunchy to	-	und in some plant viruses (2) Potato virus X and (4) Cauliflower and Da	Y
19.১	<ul> <li>A viral DNA can be made radioactive</li> <li>(1) by culturing the virus on a medium containing p<sub>32</sub></li> <li>(2) by culturing a virus on medium containing potato, dextrose and p<sub>32</sub></li> <li>(3) by providing the p<sub>32</sub> to bacterium which is to be infected by a virus</li> <li>(4) by providing p<sub>32</sub> to virus when it is about to attack the bacteria.</li> </ul>			
	.,		•	
20.2	.,	virus when it is about to	•	(4) both RNA and DNA
20.æ 21.æ	<ul> <li>(4) by providing p<sub>32</sub> to</li> <li>Animal virus mostly c</li> <li>(1) RNA</li> </ul>	o virus when it is about to ontains (2) DNA	attack the bacteria.	
	<ul> <li>(4) by providing p<sub>32</sub> to</li> <li>Animal virus mostly c</li> <li>(1) RNA</li> <li>Rous Sarcoma virus,</li> </ul>	o virus when it is about to ontains (2) DNA the first oncogenic virus (2) DNA (2)	attack the bacteria. (3) RNA or DNA discovered by Peyton Rot	us, contains
21.๖	<ul> <li>(4) by providing p<sub>32</sub> to Animal virus mostly c</li> <li>(1) RNA</li> <li>Rous Sarcoma virus,</li> <li>(1) DNA (1)</li> <li>Plant viruses mostly l</li> </ul>	o virus when it is about to ontains (2) DNA the first oncogenic virus (2) DNA (2) nave (2) RNA	attack the bacteria. (3) RNA or DNA discovered by Peyton Rot (3) RNA (1)	us, contains (4) RNA (2)
21.æ 22.æ	<ul> <li>(4) by providing p<sub>32</sub> to Animal virus mostly c</li> <li>(1) RNA</li> <li>Rous Sarcoma virus,</li> <li>(1) DNA (1)</li> <li>Plant viruses mostly l</li> <li>(1) DNA</li> <li>Bacteriophage T<sub>2</sub> cor</li> <li>(1) ds DNA</li> </ul>	o virus when it is about to ontains (2) DNA the first oncogenic virus (2) DNA (2) nave (2) RNA ntains (2) ss DNA	attack the bacteria. (3) RNA or DNA discovered by Peyton Rot (3) RNA (1) (3) DNA or RNA (3) ss RNA	us, contains (4) RNA (2) (4) coiled DNA
21.æ 22.æ 23.æ	<ul> <li>(4) by providing p<sub>32</sub> to Animal virus mostly of (1) RNA</li> <li>Rous Sarcoma virus, (1) DNA (1)</li> <li>Plant viruses mostly b (1) DNA</li> <li>Bacteriophage T<sub>2</sub> cor (1) ds DNA</li> <li>Transfer of genetic m (1) transformation</li> </ul>	o virus when it is about to ontains (2) DNA the first oncogenic virus (2) DNA (2) (2) DNA (2) (2) RNA (2) RNA (2) RNA (2) ss DNA (2) ss DNA (2) transduction for the production of cDN	attack the bacteria. (3) RNA or DNA discovered by Peyton Rob (3) RNA (1) (3) DNA or RNA (3) ss RNA (3) ss RNA m to another through a ba (3) sexduction	us, contains (4) RNA (2) (4) coiled DNA (4) ds RNA cteriophage virus is called

27.24	Prions are viruses that have only (1) protein coat and no nucleic acid (3) lipoprotein coat		(2) core of nucleic acid (4) few genes	
28.24	Prions are composed I (1) ssRNA	argely of (2) P <sub>r</sub> P-protein	(3) ssDNA	(4) P <sub>r</sub> P-lipoprotein
29.১	Which of the following (1) Tristeza (root rot) o (3) Yellow vein mosaic	f <i>Citrus</i>	(2) Banana bunchy top (4) All of the above	
30. 🕿	Viruses are not affecte (1) They have no meta (3) They are nonliving		<ul><li>(2) They have no cytoplasm and genetic material</li><li>(4) They are obligate superparasites.</li></ul>	
		MISCELLANEO	<b>US QUESTIONS</b>	
1.১	Which one is prokaryot (1) <i>Chlorella</i>	te (2) Prosopis	(3) Paramecium	(4) Nostoc
2. 🖎	Flagella are absent in (1) Chlorophyta	(2) Cyanophyta	(3) Phaeophyta	(4) Euglenophyta
3.24	Multicellular fragment o (1) Hormocyst	of a blue green alga capa (2) Trichome	able of growth into new pl (3) Trichogyne	ant is (4) Hormogonium
4.	Bacteria have cell men (1) Chitin (3) Proteins and phosp		(2) Cellulose (4) Fats.	
5.æ	Which one is autotroph (1) <i>Clostridium</i>	nic. (2) <i>Rhizobium</i>	(3) Anabaena	(4) Azotobacter.
6.24	Bacteria that survive hi (1) Cyanobacteria	igh salt concentration and (2) Archaebacteria	d temperature are (3) Eubacteria	(4) Actinomycetes
7.১	Inner wall of Gram (–) (1) Lipoprotein	bacteria is formed of (2) Mucopeptide	(3) Chromoprotein	(4) Glycoprotein.
8.2	Feeding on dead and o (1) Autotrophic	decaying organisms is a (2) Saprotrophic	nutrition called (3) Parasitic	(4) Holozoic.
9.24	half the cup?			How much time will it take to fill
	(1) 59 minute	(2) 30 minutes	(3) 29 minutes	(4) 20 minutes.
10.১	Extrachromosomal DN (1) Mesosome	A of bacteria is (2) Micrososme	(3) Plasmid	(4) Chromosome.
11.24	PPLO is (1) Virus	(2) Viroid	(3) Mycoplasma	(4) bacteria

**12.** Which is source of Vitamin B<sub>12</sub>

(1) Pseudomonas (2) Spirulina (3) Nostoc (4) Oscillatoria

**13.** Match the columns and choose the correct combination

			Column I		Column II		
		(a)	Escherichia coli	(i)	nif gene		
		(a) (b)	Rhizobium meliloti	(i) (ii)	Digest hydrocarbons o	of crude oil	
		(C)	Bacillus thuringiensis	(ii)	Human insulin product		
		(d)	Pseudomonas putida	(iiv)	Biocontrol of fungal dis		
		(u)		(v)	Biodegradable insection		
				(•)	Diodegradable inseein		
	(1) (a)–(	(iii), (b) –	(i), (c)–(v), (d)–(iv)		(2) (a)–(i), (b) – (ii), (	c)–(iii), (d)–(iv)	
	(3) (a)–	(iii), (b) -	- (i), (c)–(v), (d)–(ii)		(4) (a)–(ii), (b) – (i), (	c)–(iii), (d)–(iv)	
14.	Piament	ts phyco	cyanin and phycoerythrin	n occu	r in		
	•	llariophy			(3) Eubacteria	(4) Cyanophyceae	
	. ,						
15.๖	, , , , , , , , , , , , , , , , , , , ,						
	(1) Cyto				(2) Thylakoid membra		
	(3) Ribosomes (4) Chloroplast membrane				brane		
16.2	Penicilli	n has inh	nibitory effect over bacter	ia by			
	(1) Dest	ruction c	of nucleus		(2) Inhibition of cell w	all synthesis	
	(3) Stopping entrance of antibody (4) None of the above			9			
17.2	Sexual reproduction is absent in						
111.03		hophyta			(3) Chloropohyta	(4) Rhodophyta	
	. ,						
18.			d in present only in bacte	eria ar	-		
	(1) Glyc				(2) Tyrosine		
	(3) Gluta	amic acio	3		(4) Diaminopimellic a	cid	
19.2	Teichoid	acid is	present in				
	(1) Cell	wall of G	ram positive bacteria		(2) Cell wall of Gram negative bacteria		
	(3) Caps	sid of viru	us		(4) Protoplasm of my	lasm of mycoplasma	
20.	Blue are	en alga	e belong to this kingdom				
201	(1) Plan	0	(2) Protista		(3) Fungi	(4) Monera	
	. ,				(c) i diigi		
21.ര.			e sensitive to				
	(1) Tetra	acyclines	s (2) Penicillin		(3) Sugars	(4) Amino acids	
22.2	The cap	sid of vir	us is synthesized on				
	(1) Nucl	eus of th	e virus		(2) Ribosomes of the	host	
	(3) Mitod	chondria	of the host		(4) Plasma membran	e of the host	
<b>)</b> 2 ~	In node	, fioldo h	iological pitragon fivetion	ic ch	iafly brought by		
23.2		nobacter	iological nitrogen fixation ia (2) Green algae		(3) Mycorrhiza	(4) Rhizobium	
	(i) Cyai						

24.æ	Chlorophyll containing euglenoid (1) Facultative autotrophs (3) Obligate heterotrophs	speci	es are	<ul><li>(2) Obligate autotroph</li><li>(4) Facultative heterotic</li></ul>	
25.				<ul><li>(2) Life cycle showing</li><li>(4) Both 2 and 3.</li></ul>	zygotic meiosis
26.১	Progressive diminishing size of c (1) Auxospores (2) Arthr		•	ented by production of (3) Zoospores	(4) Basidiospores.
27.≿	The thalloid body of slime mould(1) Plasmodium(2) Protect		•	) is known as (3) Fruiting body	(4) Mycelium.
28.≿	Which of the following is not a pr(1) Amoeba(2) Taer			(3) Paramecium	(4) Euglena
29.๖	Which is correct about cell wall of bacteria and t (1) Glycopeptide (3) N-acetylglucosamine and cellulose			fungi both have (2) N-acetylglucosamine (4) Chitin.	
30.১	Mushroom is (1) Saprophyte (2) Facu	Iltative	parasite	(3) Obligate parasite	(4) Phagotroph.
31.১	Yeast is important source of (1) Proteins (2) Ribo	flavin		(3) Vitamin C	(4) Sugars.
32.	In an ascus of ascomycetes, nur (1) 8 in linear order (3) both 1 and 2	nber a	nd arrang	gement of ascopores are (2) 4 in linear order (4) 8 or 4, linear order	
33.24	In <i>Agaricus</i> , the largest phase of (1) n (2) 2 n	nucle	ar conditi	ons is (3) n + n	(4) 3 n
34.2	Fungi differ from other kingdoms in being (1) Unicellular consumers (3) Multicellular consumers			(2) Unicellular decomposers (4) Multicellular decompsers.	
35.2	Match the columns				
	<ul> <li>(a) Early Blight of Potato</li> <li>(b) Late Blight of Potato</li> <li>(c) Smut of Wheat</li> <li>(d) Rust of Wheat</li> </ul>	(i) (ii) (iii) (iv)	Ustilago Phytopl Alternai	hthora infestans ria solani	(a) (ii) (d) (i)
	(1) (a) – (i), (b) – (ii), (c)– (iii), (d	) — (IV)		(2) (a) – (iv), (b) – (iii),	(c) - (ii), (d) - (i)

(3) (a) – (ii), (b) – (iii), (c)– (i), (d) – (i)

(2) (a) - (iv), (b) - (iii), (c) - (ii), (d) - (i) (4) (a) - (iv), (b) - (ii), (c) - (iii), (d) - (i)

**36.** The deadlist mushroom is

(1) Agaricus (2) Amanita

(3) Pleurotus

(4) Volvariella.

37.	Zygospore is formed fro (1) Gametangial copula (3) Zygote		(2) Gametic union (4) Oogamy		
38.æ	Which is not found in m (1) Eukaryotic structure (3) Basidiospores		(2) Dikaryotic mycelium (4) Ascospores.		
39.2	<i>Puccinia</i> infection from (1) Teleutospores	Barberry to Wheat occur (2) Uredospores	s through (3) Aeciospores	(4) Pycniospores	
40.æ	A fungus which grows of (1) Obligate parasite (3) Facultative saproph		ubsist on organic matter is (2) Obligate saprophyte (4) Facultative parasite.		
41.2a	Mycorrhiza generally or (1) Alkaline soils	ccurs in (2) Acidic soils	(3) Oligotrophic soils	(4) Eutrophic soils.	
42.	Clamp connections are (1) Phycomycetes	found in (2) Ascomycetes	(3) Basidiomycetes	(4) Deuteromycetes	
43.æ	Which one of the follow (1) Enzyme	ing is not commercially p (2) Vitamin	produced by <i>Yeast</i> ? (3) Hormone	(4) Riboflavin	
44.2	This fungus is not edibl (1) <i>Agaricus</i>	e (2) Toadstool	(3) Puffballs	(4) Morchella	
45.æ	Powdery mildew of whe (1) <i>Puccinia</i>	eat is caused by a specie (2) <i>Erysiphe</i>	s of (3) <i>Ustilago</i>	(4) Albugo	
46.	Mycorrhizal association (1) Mushrooms	is must for growth of (2) Orchids	(3) Sal and Teak	(4) None of these	
47.æ	Viral genome incorpora (1) Prophages	ted and integrates with b (2) RNA	acterial genome is refer (3) DNA	to as (4) Both (2) and (3)	

# Exercise-2

1.	Which of the following is true about the phytosynthetic protista?(5th NSO I L)(1) Dinophyta often have cell wall made up of armor plates(2) Bacillariophyta are commonly found as phytoplankton						
	<ul><li>(3) All of them have chlorophyll</li><li>(4) All of the above</li></ul>						
2.24	2. The principle pigment imparting distinctive brown or olive brown colouration to the thallus of Phaeophyta is (5th I						
	(1) Siphonoxanthin	(2) Fucoxanthin	(3) Necoxanthin	(4) Flavoxanthin	I		

## Exercise-3

### PART - I : NEET / AIPMT QUESTION (PREVIOUS YEARS )

1.29.	Organisms which obtai (1) Photoautotrophs	n energy by oxidation of (2) Saprotrophs	reduced inorganic compo (3) Chemoautotrophs	ounds are (4) Chemohete	(AIPMT-2002) protrophs.	
2.24	A fungal disease that s (1) Loose smut of Whe (3) Covered smut of Ba		vers is (2) Corn smut (4) Soft rot of Potato.		(AIPMT-2002)	
3.24	Toxin is secreted during (1) <i>Fusarium</i>	g storage condition by (2) <i>Colletotrichum</i>	(3) Penicillium	(4) Aspergillus	(AIPMT-2002)	
4.24	In lichen, fungus has (1) Symbiotic relationsh (3) Saprophytic relation		(2) Epiphytic relationsh (4) Parasitic relationshi	ip with alga	AIPMT-2003,4)	
5.2	<i>Azolla</i> has a symbiotic (1) <i>Chlorella</i>	relationship with (2) <i>Anabaena</i>	(3) Nostoc	(4) Tolypothrix	(AIPMT-2004)	
6.24	(1) Viruses contain eith	eir own metabolic system ive parasites			(AIPMT-2004)	
7.24		grobacterium	•		(AIPMT-2004)	
8.2	Bacterial flagella are fo (1) Amines	rmed of. (2) Proteins	(3) Lipids	(4) Carbohydra	(AIPMT-2004) ates.	
9.24	Barophilic prokaryotes(AIPMT-2008)(1) Occur in water containing high concentration of barium hydroxide(2) Grow slowly in alkaline frozen lakes at high altitude(3) Grow and multiply in very deep marine sediments(4) Readily grow and divide in sea water enriched with soluble salt of barium					
10.১	For retting of Jute, the f (1) Methanophilic bacter (3) <i>Helicobacter pylori</i>	-	(2) Butyric acid bacteria (4) <i>Streptococcus lactir</i>		(AIPMT-2005)	
11.๖	Crown gall disease of p (1) Ti-plasmid	plants is caused by (2) Pi-plasmid	(3) Virus	(4) Protozoan	(AIPMT-2005)	

12.১	Auxospores and horm	ocysts are formed respec	tively by	(AIPMT-20	05)
	(1) Some diatoms and	several cyanobacteria	(2) Some cyanobacter	ia and several diatoms	
	(3) Several cyanobacte	eria and several diatoms	(4) Serveral diatoms a	nd few cyanobacteria.	
13.১	Curing of Tea leaves is	s brought about by the ac	tivity of	(AIPMT-20	05)
	(1) Fungi	(2) Bacteria	(3) Viruses	(4) Mycorrhiza.	
14.১	Which pair belongs to	basidiomycetes		(AIPMT-20	06)
	(1) Puffball and Clavic	eps	(2) Peziza and Stink H	lorn	
	(3) Morchella and Mus	hroom	(4) Bird Nest Fungus a	and Puffball	
15.2	A filamentous nitrogen	fixing bacterium is prese	nt in root nodules of nor	n-leguminous plant (AIPMT-20)	07)
	(1) Cicer arietinum		(2) Casurina equisetifo	•	07)
	(3) Cycas revoluta		(4) Crotalaria juncea.	Jild .	
			(4) Orotalana juncea.		
16.2	Which is wrong about			(AIPMT-20	07)
	(1) They are called PP		(2) They are pleomorp		
	(3) They are sensitive	to penicillin	(4) They cause diseas	es in plants.	
17.2	•	lassification of living orgation of the following statements		ns of life (bacteria, archaea a (AIPMT - 20	
	(1) Archaea completel	y differ from both prokary	otes and eukaryotes		
	(2) Archaea completel	y differ from prokaryotes			
	(3) Archaea resemble	eukarya in all respects			
	(4) Archaea have som	e novel features that are	absent in both prokaryo	tes and eukaryotes.	
18.2	Thermococcus, Metha	nococcus and Methanob	acterium exemplify	(AIPMT-20	08)
	(1) Bacteria whose Di mitochondria	NA is relaxed or positive	y supercoiled but which	n have a cytoskeleton as well	l as
	(2) Bacteria that conta	ain a cytoskeleton and rib	osomes		
	(3) Archaebacteria that contain protein homologous to eukaryotic core histones				
	(3) Archaebacteria tha	at contain protein homolo	gous to eukaryotic core	histones	
	. ,	at lack any histones res	-	histones eukaryotes but whose DNA	۹ is
19.১	(4) Archaebacteria the negatively superco	at lack any histones res	embling those found in		
19.2	(4) Archaebacteria the negatively superco	at lack any histones res biled.	embling those found in	eukaryotes but whose DNA (AIPMT-20	
19.১	<ul><li>(4) Archaebacteria the negatively superco</li><li>Phylogenetic system of</li></ul>	at lack any histones res biled. f classification is based o	embling those found in	eukaryotes but whose DNA (AIPMT-20 onships	
	<ul> <li>(4) Archaebacteria the negatively superconductance</li> <li>Phylogenetic system of (1) Floral Characters</li> <li>(3) Morphological feature</li> </ul>	at lack any histones res biled. If classification is based o ures	embling those found in n (2) Evolutionary relatio (4) Chemical constitue	eukaryotes but whose DNA (AIPMT-20 onships ents	09)
19. a 20. a	<ul> <li>(4) Archaebacteria the negatively superco</li> <li>Phylogenetic system of (1) Floral Characters</li> <li>(3) Morphological feator</li> <li>Semiconservative repl</li> </ul>	at lack any histones res biled. If classification is based o ures ication of DNA was first d	embling those found in (2) Evolutionary relation (4) Chemical constitue emonstrated in	eukaryotes but whose DNA (AIPMT-20 onships ents (AIPMT-20	09)
	<ul> <li>(4) Archaebacteria the negatively superce</li> <li>Phylogenetic system of</li> <li>(1) Floral Characters</li> <li>(3) Morphological feature</li> <li>Semiconservative repl</li> <li>(1) Salmonella typhime</li> </ul>	at lack any histones res biled. If classification is based o ures ication of DNA was first d	embling those found in (2) Evolutionary relation (4) Chemical constitue emonstrated in (2) Drosophila melano	eukaryotes but whose DNA (AIPMT-20 onships ents (AIPMT-20 gaster	09)
20.๖	<ul> <li>(4) Archaebacteria the negatively superce</li> <li>Phylogenetic system of (1) Floral Characters</li> <li>(3) Morphological features</li> <li>(3) Semiconservative replication (1) Salmonella typhime</li> <li>(3) Escherichia coli</li> </ul>	at lack any histones res biled. If classification is based o ures ication of DNA was first d urium	embling those found in (2) Evolutionary relation (4) Chemical constitue emonstrated in	eukaryotes but whose DNA (AIPMT-20 onships ents (AIPMT-20 rgaster moniae	09)
	<ul> <li>(4) Archaebacteria the negatively superce</li> <li>Phylogenetic system of</li> <li>(1) Floral Characters</li> <li>(3) Morphological feature</li> <li>Semiconservative repl</li> <li>(1) Salmonella typhime</li> <li>(3) Escherichia coli</li> <li>The common nitrogenetic</li> </ul>	at lack any histones respiled. If classification is based of ures ication of DNA was first d <i>urium</i>	embling those found in (2) Evolutionary relation (4) Chemical constitue emonstrated in (2) Drosophila melano (4) Streptocccus pneu	eukaryotes but whose DNA (AIPMT-20 onships ents (AIPMT-20 gaster moniae (AIPMT-20	09)
20.๖	<ul> <li>(4) Archaebacteria the negatively superce</li> <li>Phylogenetic system of (1) Floral Characters</li> <li>(3) Morphological features</li> <li>(3) Semiconservative replication (1) Salmonella typhime</li> <li>(3) Escherichia coli</li> </ul>	at lack any histones res biled. If classification is based o ures ication of DNA was first d urium	embling those found in (2) Evolutionary relation (4) Chemical constitue emonstrated in (2) Drosophila melano	eukaryotes but whose DNA (AIPMT-20 onships ents (AIPMT-20 rgaster moniae	09)
20.๖	<ul> <li>(4) Archaebacteria the negatively superce</li> <li>Phylogenetic system of</li> <li>(1) Floral Characters</li> <li>(3) Morphological feature</li> <li>Semiconservative repl</li> <li>(1) Salmonella typhime</li> <li>(3) Escherichia coli</li> <li>The common nitrogenetic</li> </ul>	at lack any histones respiled. If classification is based of ures ication of DNA was first d <i>urium</i> fixer in paddy fields is (2) <i>Oscillatoria</i>	embling those found in (2) Evolutionary relation (4) Chemical constitue emonstrated in (2) Drosophila melano (4) Streptocccus pneu	eukaryotes but whose DNA (AIPMT-20 onships ents (AIPMT-20 gaster moniae (AIPMT-20	09) 09) 110)
20.æ 21.æ	<ul> <li>(4) Archaebacteria the negatively superce</li> <li>Phylogenetic system of</li> <li>(1) Floral Characters</li> <li>(3) Morphological features</li> <li>(3) Morphological features</li> <li>(1) Salmonella typhimute</li> <li>(3) Escherichia coli</li> <li>The common nitrogenet</li> <li>(1) Azospirillum</li> </ul>	at lack any histones respiled. If classification is based of ures ication of DNA was first d <i>urium</i> fixer in paddy fields is (2) <i>Oscillatoria</i>	embling those found in (2) Evolutionary relation (4) Chemical constitue emonstrated in (2) Drosophila melano (4) Streptocccus pneu	eukaryotes but whose DNA (AIPMT-20 onships ents (AIPMT-20 gaster moniae (AIPMT-20 (4) Rhizobium	09) 09) 110)

23.2	Ringworm in humans	-	(2) \/irussa	(AIPMT-2010)
24.১	(1) Fungi Single-celled eukaryo	(2) Nematodes tes are included in	(3) Viruses	(4) Bacteria (AIPMT-2010)
	(1) Fungi	(2) Archaea	(3) Monera	(4) Protista
25.১	A prokaryotic autotrop (1) <i>Alnus</i>	hic nitrogen fixing symbi (2) <i>Cycas</i>	ont is found in: (3) <i>Cicer</i>	(AIPMT-Pre2011) (4) <i>Pisum</i>
26.2	Ethanol is commercial (1) Saccharomyces	lly produced through a pa (2) <i>Clostridium</i>	articular species of: (3) <i>Trichoderma</i>	(AIPMT Pre2011) (4) Aspergillus
27.æ	Which one of the fol remaining three are co (1) <i>Yeast</i> - statins	• •	hing of a microbe and (2) Acetobacter aceti -	its industrial product, while the (AIPMT Mains-2011) acetic acid
	(3) Clostridium butylic	um - lactic acid	(4) Aspergillus niger -	citric acid
28.2	The Cyanobacteria ar (1) Proists	e also referred to as (2) Golden algae	(3) Slime moulds	(AIPMT-2012) (4) Blue green algae
29.১	Maximum nutritional d	liversity is found in the gr	oup.	(AIPMT-2012)
	(1) Fungi	(2) Animalia	(3) Monera	(4) Plantae
30.১	A nitrogen-fixing micro (1) <i>Spirulina</i>	bbe associated with Azol (2) Anabaena	la in rice fields is: (3) <i>Frankia</i>	<b>(AIPMT-2012)</b> (4) <i>Tolypothrix</i>
31.১	Nuclear membrane is (1) <i>Penicillium</i>	absent in (2) <i>Agaricus</i>	(3) Volvox	(AIPMT-2012) (4) Nostoc
32.æ	<ul> <li>taxonomic group</li> <li>(1) <i>Paramecium</i> and</li> <li>(2) Lichen is a composition</li> <li>(3) <i>Yeast</i> used in make</li> </ul>	<i>Plasmodium</i> belong to th	e same kingdom as that m the symbiotic associati ungus	assigned ot its or their named (AIPMT-2012) of <i>Penicillium</i> on of an algae and a protozoan
33.24	Which statement is wi (1) All are parasites (2) All of them have he (3) They have ability of (4) Antibiotics have no	elical symmetry ot synthesize nucleic acid	s and proteins	(АІРМТ-2012)
34.为	<ul><li>(2) In Oomycetes fem</li><li>(3) <i>Chlamydomonas</i> e</li></ul>	er either in structure, fund ale gamete is smaller an	d motile, while male gam d anisogamy and <i>Fucus</i> s	(AIPMT-2013) ete is larger and non-motile shows oogamy
35.æ	Pigment-containing m (1) Basal bodies	embranous extensions ir (2) Pneumatophores	n some cyanobacteria are (3) Chromatophores	e: (NEET-2013) (4) Heterocysts

36.2	Besides paddy fields, (1) <i>Cycas</i>	cyanobacteria are also fo (2) <i>Equisetum</i>	ound insio (3) <i>Psi</i>	•	art of: (4) <i>Pinus</i>	(NEET-2013)
37.๖	Archaebacteria differ (1) Cell membrane s (3) Cell shape		. ,	de of nutrition de of reproducti	on	(AIPMT-2014)
38.24	• •		•	I. Whittaker is n	ot based on:	(AIPMT-2014)
39.24	The motile bacteria a (1) fimbriae	re able to move by: (2) flagella	(3) cilia	a	(4) pili	(AIPMT-2014)
40.১	Which of the following (1) Polio virus (3) Measles virus	g shows coiled RNA stran	(2) Tob	psomeres? pacco mosaic vi tro virus	rus	(AIPMT-2014)
41.๖	Viruses have: (1) DNA enclosed in a (3) Single Chromosor	•	. ,	karyotic nucleu		(AIPMT-2014)
42.2	Which one of the follo	owing matches is <b>correct</b>	?			(AIPMT-2015)
	<ul> <li>(1) Alternaria</li> <li>(2) Mucor</li> <li>(3) Agaricus</li> <li>(4) Phytophthora</li> </ul>	Sexual reproduction ab Reproduction by Conjug Parasitic funus Aseptate mycelium		Deuteromycete Ascomycetes Basidiomycete Basidiomycete	es	
43.æ	True nucleus is abser (1) Mucor	nt in : (2) Vaucheria	(3) Vol	vox	(4) Anaba	(AIPMT-2015) ena
44. 🕁	The guts of cow and (1) <i>Chlorella</i> spp.	buffalo possess: (2) Methanogens	(3) Cya	anobacteria	(4) Fucus	(AIPMT-2015) spp.
45.æ	Pick up the wrong statement:(Re-AIPMT-2015)(1) Protista have photosynthetic and heterotrophic modes of nutrition(2) Some fungi are edible(3) Nuclear membrane is present in Monera(4) Cell wall is absent in Animalia					(Re-AIPMT-2015)
46.æ	Cell wall is absent in: (1) Funaria	(2) Mycoplasma	(3) Nos	stoc	(4) Asperg	( <b>Re-AIPMT-2015)</b> jillus
47.æ	(3) Brown algae have		fucoxanth	nin	S.	(Re-AIPMT-2015)

48.2	The imperfect fungi w	hich are decomposer of I	itter and help in mineral c		to: <b>(Re-AIPMT-2015)</b>
	(1) Basidiomycetes	(2) Phycomycetes	(3) Ascomycetes	(4) Deuteror	. ,
49.æ	<ul><li>(2) Morels and truffles</li><li>(3) Yeast is unicellulation</li></ul>	tements: d in the study of biochem are poisonoues mushro r and useful in fermentati cellular and produces an	oms		(Re-AIPMT-2015)
50.	Which of the following (1) Single – stranded (3) Circular structure	is not a feature of the pl	asmids? (2) Independent replica (4) Transferable	ation	(NEET-I-2016)
51.	<ul><li>(1) Phycomycetes are</li><li>(2) Cyanobacteria are</li><li>(3) Golden algae are a</li></ul>	wing statements is wrong also called algal fungi. also called blue-green a also called desmids. o called false bacteria.	-		(NEET-I-2016)
52.	Chrysophytes, Eugler	oids, Dinoflagellates and	slime moulds are include	ed in the kingo	
	(1) Animalia	(2) Monera	(3) Protista	(4) Fungi	(NEET-I-2016)
53.	One of the major com (1) Hemicelluloses	ponents of cell wall of me (2) Chitin	ost fungi is : (3) Peptidoglycan	(4) Cellulos	<b>(NEET-I-2016)</b>
54.	The primitive prokary include the: (1) Eubacteria	otes responsible for the (2) Halophiles	production of biogas from (3) Thermoacidophiles	-	(NEET-I-2016)
55.		statements is wrong for		(+) Mothane	(NEET-I-2016)
55.	<ul><li>(1) Their RNA is of hig</li><li>(3) They are smaller the</li></ul>	gh molecular weight	<ul><li>(2) They lack a protein</li><li>(4) They cause infectio</li></ul>		(NEE1-2010)
56.	Methanogens belong (1) Slime moulds	to (2) Eubacteria	(3) Archaebacteria	(4) Dinoflag	(NEET-II-2016) ellates
57.	<ul><li>(2) The walls of diator</li><li>(3) 'Diatomaceous ear</li></ul>	ement. scopic and float passivel ns are easily destructible rth' is formed by the cell v producers in the oceans.	walls of diatoms.		(NEET-II-2016)
58.	Select the mismatch. (1) Methanogens-Prol (3) Large central vacu		(2) Gas vacuoles-Gree (4) Protists-Eukaryotes		(NEET-II-2016)

59.	(2) Bacterial cell wall	a wall-less microorganism s made up of peptidoglyc re mainly involved in mot	can		(NEET-II-2016)
60.	Which of the following (1) 5·8s rRNA	rRNAs acts as structura (2) 5S rRNA	l RNA as well as ribozyn (3) 18 S rRNA	ne in bacterial? (4) 23S rRNA	(NEET-II-2016)
61.	<ul> <li>A. Definition of biologi</li> <li>B. Photoperiod does r</li> <li>C. Binomial nomencla</li> </ul>	ents (A - D) given below cal species was given by not affect reproduction in ture system was given b isms, reproduction is syr nents are (2) B and C	<sup>y</sup> Ernst Mayr. plants. y R. H. Whittaker.		m: (NEET-II-2016)
62.	-	owing are the smallest liv als and can survive with (2) Pseudomonas	•	a definite cell wa (4) Nostoc	ll, pathogenic to (NEET-2017)
63.	Which of the following (1) Archaebacteria	are found in extreme sa (2) Eubacteria	line conditions? (3) Cyanobacteria	(4) Mycobacte	<b>(NEET-2017)</b> ria
64.	Viroids differ from viru (1) DNA molecules wi (3) RNA molecules wi	th protein coat	(2) DNA molecules wi (4) RNA molecules wi	•	
65.	Which of the following (1) Cell wall (3) Plasma membrane	components provides st	icky character to the bac (2) Nuclear membrane (4) Glycocalyx		(NEET-2017)
66	Ciliates differ from all (1) using flagella for lo (2) having two types of (3) using pseudopodia (4) having a contractil	bcomotion of nuclei	xcess water		(NEET-2018)
67	Which of the following (1) Dinoflagellates	organisms are known as (2) Euglenoids	s chief producers in the c (3) Cyanobacteria	oceans? (4) Diatoms	(NEET-2018)
68	Which among the follo (1) <i>Saccharomyces</i> (3) <i>Nostoc</i>	owing is <i>not</i> a prokaryote	? (2) Oscillatoria (4) Mycobacterium		(NEET-2018)
69	After karyogamy follov (1) Neurospora (3) Agaricus	wed by meiosis, spores a	re produced exogenousl (2) Saccharomyces (4) Alternaria	ly in	(NEET-2018)

70	<ul> <li>Which one is <i>wrongly</i> matched?</li> <li>(1) Uniflagellate gametes – Polysiphonia</li> <li>(2) Unicellular organism – Chlorella</li> <li>(3) Gemmacups – Marchantia</li> <li>(4) Biflagellate zoospores – Brown alga</li> <li>Select the <i>wrong</i> statement:</li> <li>(1) Cell wall is present in members of Fungi and</li> <li>(2) Mitochondria are the powerhouse of the cell in</li> <li>(3) Pseudopodia are locomotory and feeding struct</li> <li>(4) Mushrooms belong to Basidiomycetes.</li> </ul>	e Plantae. n all kingdoms except Monera.	(NEET-2018) (NEET-2018)
72.	<ul> <li>Which of the following statements is incorrect</li> <li>(1) Yeasts have filamentous bodies with long three</li> <li>(2) Morels and truffles are edible delicacies</li> <li>(3) Clabiceps is a source of many alkaloids and L</li> <li>(4) Conidia are produced exogenously and ascos</li> </ul>	_SD.	(NEET-1-2019)
73.	<ul> <li>Which of the following statements is incorrect?</li> <li>(1) Prions consist of abnormally folded proteins.</li> <li>(2) Viroids lack a protein coat.</li> <li>(3) Viruses are obligate parasites.</li> <li>(4) Infective constituent in viruses is the protein coat.</li> </ul>	coat	(NEET-1-2019)
74. 75.	Which of the following is against the rules of ICB (1) Hand written scientific names should be under (2) Every species should have a generic name at (3) Scientific names are in Latin and should be its (4) Generic and specific names should be written Mad cow disease in cattle is caused by an organ	rrlined. nd a specific epithet. alized. n starting with small letters.	(NEET-2-2019) (NEET-2-2019)
73.	(1) Inert crystalline	<ul><li>(2) Abnormally folded protein</li><li>(4) Free DNA without protein co</li></ul>	
76.	<ul> <li>Which of the following statements is correct?</li> <li>(1) Lichens do not grow in polluted areas.</li> <li>(2) Algal component of lichens is called mycobiol</li> <li>(3) Fungal component of lichens is called phycob</li> <li>(4) Lichens are not good pollution indicators.</li> </ul>		(NEET-2-2019)

77.	Match the organisms in o	column I with habitats	in column II.	(NEE	Г-2-2019)
	Column I	Column II			
	(a) Halophiles	(i) Hot spring	S		
	(b)Thermoacidophiles	(ii) Aquatic er	nvironment		
	(c) Methanogens	(iii) Guts of ru	iminants		
	(d) Cyanobacteria	(iv) Salty area	as		
	Select the correct answe	r from the options giv	en below :		
	(1) (a)-(iv), (b)-(i), (c)-(iii)	, (d)-(ii)			
	(2) (a)-(i), (b)-(ii), (c)-(iii),	(d)-(iv)			
	(3) (a)-(iii), (b)-(iv), (c)-(i)	, (d)-(i)			
	(4) (a)-(ii). (b)-(iv), (c)-(iii)	, (d)-(i)			
'8.	Which of the following sta	atements about meth	anogens is not correct?	(NEE	Г-2-2019)
	(1) The can be used to p	roduce biogas,			
	(2) They are found in the	rumen of cattle and t	heir excreta.		
	(3) They grow aerobically	and breakdown cell	ulose-rich food.		
	(4) They produce methar	ne gas.			
	PART -		TION (PREVIOUS Y	EARS)	
	Structure helping lichens	in respiration is			(AIIMS-200)
		(2) Soredium	(3) Cephalodium	(4) Cyphella.	(
. 'A	Bacterium Pseudomonas	s is useful as it can.			(AIIMS-2004
	(1) Transfer genes from	one plant to other	(2) Fix atmospheric n	itrogen	
	(3) Produce several antik	piotics	(4) Decompose a var	iety of organic co	npounds.
	Among rust, smut and m	ushroom, all the three	e		(AIIMS-200
	(1)Are pathogens	(2) Are saprobes	(3) Bear ascocarps	(4) Bear basid	iocarps.
. 29.	In prokaryotes, chromato	phores are			(AIIMS-200
	(1) Specialised granules	responsible for colou	ration of cells		
	(2) Structures responsibl	e for determining sha	pe of the organism		
	(3) Inclusion bodies lying	free in the cells for c	arrying out various metal	blic activites	
	(4) Internal membrane sy	stem that may becor	ne extensive and comple	ex in photosynthe	ic bacteria.
<b>.</b> 2	Myxomycetes are				(AIIMS-200
	<ol> <li>Saprobes or parasets</li> <li>reproduction by fusion</li> </ol>		ia, asexual reproducti	on by frageme	ntation, sexu
	(2) Slimy mass of multi reproduction through	nucleate protoplasm fragmentation or zoc		e structures for e	engulphing foc
	(3) Prokaryotic organism	ns, cellular or acellula	r, saprobes or autotrophi	c, reproduce by b	inary fission

6.24	<ul><li>(1) Seed plants showing</li><li>(2) Plants represented</li><li>(3) Plants described in</li></ul>	Bentham and Hooker incluing abnormal forms of grow of only in fossil state of the literature but which E could not be placed satisf	wth and development Bentham and Hooker did	not see in origin	<b>(AIIMS-2006)</b> al
7.	By all of the following (1) Making enzymes th (2) Becoming imperme (3) Modifying the targe (4) Moving away from	eable to the drug et of the drug	sistant to antibiotic excer	ot	(AIIMS-2009)
8.2	The outer most limiting (1) Cell wall	g layer of mycoplasma is ( (2) Cell membrane	made up of (3) Mucilaginous sheat	h (4) Slime layer	(AIIMS-2009)
9.2	Protista differs from m (1) cell wall	onera in having (2) autotrophic nutrition	a (3) flagella	(4) nuclear me	(AIIMS-2010) mbrane
10.๖	(3) Penicillium notatur		aphylococci		(AIIMS-2010)
11.ຯ	Which of the following (1) all fungi are filamen (2) transfer of DNA fro (3) virus cannot have h (4) protists reproduce	ntous om one bacteria to anothe both DNA and RNA	r bacteria cannot take pl	ace	(AIIMS-2010)
12.	Protists obtain their for (1) Photosynthesizers (3) Heterotrophs only		(2) Chemosynthesizers (4) Both (1) and (3)	5	(AIIMS-2011)
13.১	Photosynthetic bacteri (1) pigment system I (3) Both (1) and (2)	ia have	(2) pigment system II (4) some other kind of	pigments, B890	(AIIMS-2011)
14.2	Diatoms do not decay (1) they have siliceous (3) they are chitinous	•	<ul><li>(2) their body is imperv</li><li>(4) they are abundant i</li></ul>		(AIIMS-2011)
15.2	The classification of Li (1) Sepals	innaeus was mainly based (2) Carpels	d on (3) Petals	(4) Stamens	(AIIMS-2012)
16.2	Which of the following (1) Species	is less general in charact (b) Division	ers as compared to gen (3) Class	us? (4) Family	(AIIMS-2013)

## Page| 61

	(3) Morchella and Mu	shrooms	(4) E	irds fungi and F	Puffbal	lls				
19.	Which of the following						•	S-2015)		
	(i) Its thalloid body, I		•		-					
	(ii) During unfavour sporangium.	able conditions	Plasmodium	differentiates	and	produces	fruiting	bodies,		
	(iii) Spores posses no	o true cell wall.								
	(iv) They are disperse	ed by air current.								
	(v) Being extremely r	esistant, spores s	survive for man	y years.						
	(vi) <i>Plasmodium</i> can	grow upto severa	l feet.							
	Choose the answer fr	om the following	options							
	(1) (i),(ii),(iv),(v) and (	vi)	(2) (i ),(ii) and (iii)							
	(3) (i),(ii), (ii) and (vi)		(4) (i	i),(iii) and (vi)						
20.	Yeast is not included	in protozoans but	in fungi becau	se			(AIIM	S-2016)		
	(1) It has chlorophyll									
	(2) It shows saprotrop	hic mode of nutri	tion							
	(3) It has eukaryotic o	rganisation								
	(4) Cell wall is made u	up of cellulose and	d reserve food	material is star	ch					
21.	Read the following sta	atement regarding	) bacteria.				(AIIM	S-2017)		
	I. Bacteria exchange	heir genetic matte	er through con	ugation which i	nvolve	cell to cell	contact.			
	II. Transduction in 'Sa	<i>Imonella</i> is report	ed by Tatum a	nd Lederberg ir	n 1952	-				
	III. Citrus canker disea	ase is caused by	bacteria <i>Xanth</i>	omonas citri.						
	IV. Hans Christian gra	am's staining meth	nod is based o	n cell wall comp	ositior	n of bacteria	a.			
	Choose the correct of	otion with true sta	tements							
	(1) I and III	(2) I, III and IV	(3)	ll and. Ill	(	4) II and IV				

(2) Peziza and Alternaria

A STATE AND A STATE OF A STATE OF

Which pair of the following belongs to Basidiomycetes?

Choose the correct names of the different bacteria according to their shapes.

1. 法财产口利益的 1. 11

A-Cocci, B-Bacilli, C- Spirilla, D-Vibrio
 A-Bacilli, B-Cocci, C- Spirilla, D-Vibrio
 A-Spirilla, B-Bacilli, C- Cocci, D-Vibrio
 A-Spirilla, B-Vibrio, C- Cocci, D-Bacilli

(1) Puffballs and Claviceps

BIOLOGY FOR NEET

17.ര.

18.ര.

**BIOLOGICAL CLASSIFICATION** 

(AIIMS-2013)

(AIIMS-2013)

22.	Classical Taxonomy (1) morphological trait		(AIIMS-2017 (2) habitat of organisms r (4) phylogeny				
23.	Heterocyst present in	Nostoc is specialised for		(AIIMS-2017)			
	(1) fragmentation	(2) nitrogen-fixation	(3) symbiotic relation	(4) food stor	age		
24	Citrus canker is cause	ed by			(AIIMS-I-2018)		
	(1) Virus	(2) Fungi	(3) Bacteria	(4) None			
25	Match the column				(AIIMS-I-2018)		
	(a) Virus	(i) Schwann			(**************************************		
	(b) Viroid	(ii) T.O. diener					
	(c) Cell	(iii) Pasteur					
	(d) Ribosome	(iv) Palade					
	(1) a–iii, b–ii, c–i, d–iv		(2) a–ii, b–i, c–iv, d–iii				
	(3) a–i, b–ii, c–iii, d–iv		(4) a–iv, b–iii, c–i, d–ii				
26	Which is incorrect abo	out E.coli			(AIIMS-IV-2018)		
_•	(1) It is diploid				(**************************************		
	(2) It is found in huma	n intestine					
	(3) Transformation, Tr	ansduction, Conjugation	can show				
	(4) Can be used in Re	combinant DNA technolo	рду				
27	The genetic material c	of φ ×174 is			(AIIMS-IV-2018)		
	(1) SSDNA	(2) SSRNA	(3) DSDNA	(4) DSRNA	(		

29.

36.

43.

1.

(2)

(2)

(3)

(4)

30.

37.

44.

2.

(1)

(1)

(2)

(2)

31.

38.

45.

(2)

(4)

(2)

32.

39.

46.

(4)

(3)

(2)

**EXERCISE - 2** 

33.

40.

47.

(3)

(3)

(1)

34.

41.

(4)

(3)

35.

42.

•													
		nsv	<b>/er</b> s										
						EXER	CISE	- 1					
SEC	TION - A	۱.											
1.	(2)	2.	(4)	3.	(3)	4.	(3)	5.	(2)	6.	(1)	7.	(1)
8.	(1)	9.	(4)	10.	(3)	11.	(4)	12.	(4)	13.	(1)	14.	(1)
15.	(3)	16.	(4)										
SEC	TION - B	5											
1.	(3)	2.	(4)	3.	(3)	4.	(1)	5.	(2)	6.	(1)	7.	(1)
8.	(3)	9.	(1)	10.	(2)	11.	(1)	12.	(3)	13.	(2)	14.	(3)
15.	(2)	16.	(4)	17.	(3)	18.	(3)	19.	(2)	20.	(4)	21.	(4)
22.	(3)	23.	(3)	24.	(3)	25.	(1)	26.	(4)	27.	(2)	28.	(1)
29.	(4)	30.	(1)	31.	(3)	32.	(1)	33.	(3)	34.	(1)		
SEC		;											
1.	(1)	2.	(3)	3.	(4)	4.	(4)	5.	(2)	6.	(3)	7.	(2)
8.	(4)	9.	(3)	10.	(3)	11.	(1)	12.	(2)	13.	(3)	14.	(3)
15.	(1)	16.	(1)	17.	(1)	18.	(2)	19.	(2)	20.	(1)	21.	(2)
22.	(3)	23.	(2)	24.	(1)	25.	(4)	26.	(4)	27.	(2)	28.	(1)
29.	(2)	30.	(4)	31.	(2)								
SEC	TION - D	)											
1.	(3)	2.	(2)	3.	(4)	4.	(4)	5.	(4)	6.	(2)	7.	(4)
8.	(3)	9.	(2)	10.	(3)	11.	(4)	12.	(2)	13.	(2)	14.	(1)
15.	(2)	16.	(1)	17.	(1)	18.	(4)	19.	(3)	20.	(2)	21.	(3)
22.	(2)	23.	(1)	24.	(2)	25.	(3)	26.	(2)	27.	(1)	28.	(2)
29.	(4)	30.	(1)										
				Μ	ISCEL	LANE	OUS Q	UESTI	ONS				
1.	(4)	2.	(2)	3.	(4)	4.	(3)	5.	(3)	6.	(2)	7.	(2)
8.	(2)	9.	(1)	10.	(3)	11.	(3)	12.	(2)	13.	(3)	14.	(4)
15.	(2)	16.	(2)	17.	(2)	18.	(4)	19.	(1)	20.	(4)	21.	(1)
22.	(2)	23.	(1)	24.	(4)	25.	(4)	26.	(1)	27.	(1)	28.	(2)
~~	(-)				(-)				(-)				(-)

(2)

(3)

	EXERCISE - 3												
PART- I													
1.	(4)	2.	(1)	3.	(4)	4.	(1)	5.	(2)	6.	(1)	7.	(3)
8.	(2)	9.	(3)	10.	(2)	11.	(1)	12.	(4)	13.	(2)	14.	(4)
15.	(2)	16.	(3)	17.	(4)	18.	(3)	19.	(2)	20.	(3)	21.	(1)
22.	(1)	23.	(1)	24.	(4)	25.	(2)	26.	(1)	27.	(3)	28.	(4)
29.	(3)	30.	(2)	31.	(4)	32.	(3)	33.	(2)	34.	(2)	35.	(3)
36.	(1)	37.	(1)	38.	(2)	39.	(2)	40.	(2)	41.	(1)	42.	(1)
43.	(4)	44.	(2)	45.	(3)	46.	(2)	47.	(1)	48.	(4)	49.	(2)
50.	(1)	51.	(4)	52.	(3)	53.	(2)	54.	(4)	55.	(1)	56.	(3)
57.	(2)	58.	(3)	59.	(3)	60.	(4)	61.	(4)	62.	(3)	63.	(1)
64.	(4)	65.	(4)	66.	(2)	67.	(4)	68.	(1)	69	(3)	70.	(1)
71.	(3)	72.	(1)	73.	(4)	74.	(4)	75.	(2)	76.	(1)	77.	(1)
78.	(3)												
						PA	RT- II						
1.	(3)	2.	(4)	3.	(4)	4.	(4)	5.	(2)	6.	(4)	7.	(4)
8.	(2)	9.	(4)	10.	(3)	11.	(3)	12.	(4)	13.	(4)	14.	(1)
15.	(4)	16.	(4)	17.	(1)	18.	(4)	19.	(1)	20.	(2)	21.	(2)
22.	(1)	23.	(2)	24.	(3)	25.	(1)	26.	(1)	27.	(1)		

### Self Practice Paper (SPP)

1.	Genetic recombination in bacteria mediated by a virus is known as								
	(1) Transformation		(2) Transduction						
	(3) Sexduction		(4) None of these						
2.	Members of phycomy	cetes are found in							
	i. Aquatic habitats								
	ii. On decaying wood								
	iii. Moist and damp places								
	iv. As obligate parasite on plants								
	Choose from the following options								
	(1) None of the above		(2) i and iv						
	(3) ii and iii		(4) All of the above						
3.	Citrus canker is cause	ed by?							
	(1) Bacteria	(2) Virus	(3) Fungi	(4) Algae					

4. Match the following and choose the correct combination from the options given –

	Column I (Group Protista)		Column II (Example)
Α.	Chrysophytes	i.	Paramaecium
В.	Dinoflagellates	ii.	Euglena
C.	Euglenoids	iii.	Gonyaulax
D.	Protozoans	iv.	Diatoms

(1) A - i, B - iii, C - ii, D - iv
 (2) A - ii, B - iv, C - iii, D - i
 (3) A - iv, B - ii, C - iii, D - i
 (4) A - iv, B - iii, C - ii, D - i

5. In which of the following the cell wall has stiff cellulose plate on the outer surface

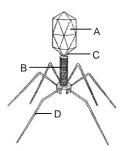
(1) Dinoflagellates	(2) Desmids	(3) Diatoms	(4) Euglenoids
Which one is autotro	phic?		
(1) Clostridium	(2) Rhizobium	(3) Anabaena	(4) Azotobacter

- 7. Dikaryophase / Dikaryon formation is a specific characteristic of
  - (1) All fungi

6.

- (2) Phycomycetes and ascomycetes
- (3) Only basidiomycetes
- (4) Ascomycetes and basidiomycetes

**8.#** Given below is the diagram of a bacteriophage. In which of the options all the four parts A,B,C and D are correct



	Α	В	С	D
(1)	Tail fibres	Head	Sheath	Collar
(2)	Sheath	Collar	Head	Tail fibres
(3)	Head	Sheath	Collar	Tail fibres
(4)	Collar	Tail fibres	Head	Sheath

9. Reproduction in fungi can take place by all of the following vegetative methods except

(1) Gemmae (2) Fragmentation	n
------------------------------	---

- **10.** Where does meiosis occur in mushroom?
  - (1) Basidiospore (2) Basidium (3) Basidiocarp

(4) Ascus mother cell

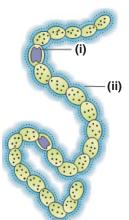
(4) Budding

- 11. Halophiles grow in concentrated salt solution due to
  - (1) Bacteriorhodopsin
  - (3) Active absorption

- (2) Branched hydrocarbon chain in phospholipids
- (4) Accumulation of KCI

(3) Fission

#### 12.#



Given below the following statements about labelling (i) and (ii)

- (a) Labelling (i) can fix atmospheric nitrogen even in the presence of  $O_2$
- (b) Labelling (ii) is also found around pollen grains of hydrophilous plants
- (c) Labelling (i) is found is Nostoc & anabaena
- (d) Labelling (i) & (ii) are features of photosynthetic autotrophs & chemosynthetic autotrophs.
- In the above statements, pick up the incorrect statements about labelling (i) & (ii)
- (1) a, b, c (2) b, d (3) a, d (4) b, c, d

13.	In the five-kingdom classification, Chlamydomonas and Chlorella have been included in:									
	(1) Protista		(2) Alg	gae		(3) Plantae	(4) Monera			
14.	Column I			Co	lumn II					
	A. Ulothrix			I. L	Jnicellul	ar				
	B. Spirogyr	a		11. 1	II. Filamentous					
	C. Chlamy			111.	III. Colonial form					
	D. Volvox				Kelps					
	E. Some gi	ant marin	e forms		•					
	Which com									
	Α	В	C	D	Е					
	(1)	-			- IV					
	(1) I (2) I		III	IV	IV					
	(2) I (3) I	I I	 II	III	IV					
	. ,	IV	" 	 	I					
	(4) IV	IV	111	11	I					
15.	Fungus use	ed in gene	etic experi	ments is						
	(1) Rhizopu	JS	(2) Mu	lcor		(3) Neurospora	(4) Claviceps			
16.	Eubacteria do not posses:									
10.		-		الميروال		(2) Mitachandria	(1) Deptide always			
	(1) Plasma membrane (2) cell wall					(3) Mitochondria	(4) Peptidoglycan			
17.	TMV has									
	(1) dsDNA	+ Protein	(2) ssl	RNA + Pr	otein	(3) ssDNA + Protein	(4) dsRNA + Protein			
40	T.O. Diene									
18.			eua			(2) Free infectious RNA				
	(1) Bacterio									
	(3) Free inf	ectious D	NA			(4) Infectious protein				
19.	Choose the	e correct s	set of bact	erial disea	ase:					
	(1) Mumps	, Cholera,	dengue			(2) Chicken Pox, typhoid, mumps				
	(3) Mumps	, tetanus,	chicken p	ох		(4) Cholera, typhoid, te	etanus			
20.	Which amo	ona the fo	llowing arc	oup of oro	anisms	show a great diversity in	n morphology and habitat.			
_0.	(1) Chrysop	-		noflagella		(3) Protozoan Protists	(4) Fungi			
	., .		. ,	•	100	(0) 1 1010200111 1011313				
21.	Which plac	e bacteria								
	(1) Soil		(2) lce	•		(3) Sea	(4) Distilled water			
22.	In 5-kingdo	m classifi	ication, the	e kingdom	n that in	cludes the blue-green al	gae, nitrogen fixing bacteria and			
	methanoge	nic archa	ebacteria,	is.						
	(1) Plantae		(2) Fu	ngi		(3) Protista	(4) Monera			
23. 🕰	In the five !	(inadom (	laceificati	on Chlan	nvdomo	onas and <i>Chlorella</i> have t	peen included in:			
2J. (3).		•			iyuunu					
	(1) Protista		(2) Alg	Jac		(3) Plantae	(4) Monera			
24.2	In Brassica	oleracea	capitata,	the term of	capitata	represents				
	(1) Subspe	cies	(2) Va	riety		(3) Sub - variety	(4) Species			

25. In Taxonomic hairarchy, the less common features from order will present in

(1) Family (2) Class (3) Genus

(4) Species

26. Match the column I with Column II

	Column-I		Colu	umn-ll
	(i) presence of bra	anched chain lipids in cell membrane	(a)	Thermo acidophiles
	(ii) Homopolar bon	d in protein	(b)	Methanogens
	(iii) Found in ma sewage treatme	rshy habitats, swamps, ruminants, ent plants	(c)	Halophiles
	(1) (i) a, (ii) b,	(iii) c		
	(2) (i) a, (ii) c,	(iii) a		
	(3) (i) b, (ii) c,	(iii) a		
	(4) (i) c, (ii) a,	(iii) b		
L	Kingdom	Organism		
	(i) Monera	Archaebacteria, Eubacteria, BGA, E	uglend	pids
	(ii) Protista	Diatoms, Dinoflagellates, Euglenoids	5	
	(iii) Fungi	Albugo, Mucor, Penicillium, Slime-m	oulds	
	Which one is/are corre			
	(1) Only (i)	(2) Only (ii) (3) Only (iii)		(4) All are correct
<u>e</u>	Organisms living in sa	lty areas are called as		
	(1) Methanogens	(2) Halophiles (3) Heliophy	/tes	(4) Thermoacidophiles
Ē	float passively in wate overlapping shell, which	found in fresh water as well as in mar er current (plankton). Most of them are ch fit together as in a soap box. sess above characters are (2) Chrysophytes (3) Diatoms	photo	•
	., _			(4) 2 & 3 5011
2	<ul><li>(B) Gonyaulax &amp; Diato</li><li>(C) In Diatoms the cel</li><li>(D) Most of the Dinofla</li></ul>	classified under chrysophytes. oms are classified under Dinoflagellates I wall form thin overlapping shell, which agellates have two flagella.		gether as in soap box.
	How many statement (1) one	(2) two (3) three		(4) four
9	(1) one	(2) two (3) three ur statements (A-D) and answer as ask	ed nex	
~	<ul> <li>(1) one</li> <li>Read the following four</li> <li>(A) All single celled end</li> <li>(B) Most of the organia</li> <li>(C) Dinoflagellates apotheir cells.</li> <li>(D) Chloroplast absentiation</li> </ul>	ur statements (A-D) and answer as ask ukaryotes are placed under protista ism of chrysophytes are photosynthetic opear yellow, green brown, blue or rec		kt to them.

32.2	As compared to slime moulds, Euglenoids has:							
	(A) Presence of chlorop	olast		(B) Holophytic nutrition				
	(C) Presence of protein	aceous pellicle		(D) Presence of contractile vacuole				
	(1) A & B,	(2) B & C		(3) A, B & C	(4) A, B, C & D			
33.2	features of both plants	& animals which		ween plant Kingdom & animal kingdom because it shows following is/are plant character of <i>Euglena</i> . (B) Holozoic nutrition				
	(A) Presence of chlorop							
	(C) Holophytic nutrition				exual reproduction.			
	(1) A & B	(2) B & C		(3) C & D	(4) A & C			
34.2	Select the wrong pair							
	(1) Red tide	_	Gonya	ulax				
	(2) Cellulosic cell wall	_	Archeo	bacteria				
	(3) Saprophytic protist	_	Slime r	moulds				
	(4) Mycoplasma – Cell wa			all less & can survive without oxygen.				
35.	Read the following stat (A) In phycomycetes m	. , -			etes & select wrong statement eptate			

- (B) Wall of hyphae is composed of cellulose
- (C) A sexual reproduction take place through sporangia.
- (D) Sexual reproduction take place by gametangial contact.
- (1) only A (2) only B (3) only C (4) A & D
- 36. A Match column I with column II

Disease	Causal organism
(A) Late blight of potato	(i) Colletotrichum falcatum
(B) Damping off of seedling	(ii) Alternaria solani
(C) Early blight of potato	(iii) Pythium debaryanum
(D) Red rot of sugarcane	(iv) Phytophthora infestans

#### **Options :-**

(1) A (iv),	B (ii),	C (iii),	D (i)
(2) A (iii),	B (ii),	C (iv),	D (i)
(3) A (i),	B (ii),	C (iii),	D (iv)
(4) A (iv),	В (iii),	C (ii),	D (i)

**37.** A dikaryon is formed when

- (1) Meiosis is arrersted
- (3) Cytoplasm does not fuse
- **38.** Members of phycomycetes are found in
  - i. Aquatic habitats
  - iii. Moist and damp places
  - Choose from the following options
  - (1) (i) and (iii) (2) i and iv

- (2) Nuclei of fusing cells do not fuse immediately
- (4) None of the above
  - ii. On decaying wood
- iv. As obligate parasite on plants
- (3) ii and iii (4) All of the above

39.১	Give below the following	g statements								
	(a) Cell wall in many m	embers of phycomycete	s is composed of cellulos	e.						
	(b) The mycelium of de by conidia.	euteromycetes is aseptat	e & unbranched and Ase	exual reproduction is performed						
	(c) In ascomycetes, co	nidia are produced exog	enously on conidiophore	S.						
	(d) Trichoderma is use	d to control fungal diseas	ses in plants.							
	(e) Bread and beer are	manufactured by Yeast								
	How many statements are correct?									
	(1) 2	(2) 5	(3) 3	(4) 4						
40.১	The enzymes involved in viral replication are synthesized									
	(1) On the viral ribosom	es	(2) On interior surface of the viral membrane							
	(3) On the interior surfa	ce of the viral coat	(4) By the host cell.							
41.๖	Which of the following viral disease widely spread in China in 2003									
	(1) Severe acute respira	atory syndrome	(2) Severe combined immuno deficiency.							
	(3) Anthrax		(4) Hepatitis							
42. 🔊	SARS virus is									
	(1) Ribovirus	(2) Human corona virus	s (3) Enveloped virus	(4) All of these						
43.æ	<ul> <li>Bird flu (Fowl Plague or Avian Influenza) is a contagious disease in humans and poultry. It is caused by a mutant H₅N₁ of influenza virus. This virus is</li> <li>(1) Ribovirus</li> <li>(2) Arthromyxovirus</li> </ul>									
	<ul><li>(3) Spreads by feathers and faeces of in fected migratory birds</li><li>(4) All of the above</li></ul>									
44.2	Which one is absent in viruses?									
	(1) Replication	(2) Protein synthesis	(3) Energy liberation	(4) Mutation						
45.æ	Nucleic acid is absent in	n								
	(1) Virus	(2) Viroid	(3) Prion	(4) Mycoplasma						

	SF	P A	nsv	/ers									
1.	(2)	2.	(4)	3.	(1)	4.	(4)	5.	(1)	6.	(3)	7.	(4)
8.	(3)	9.	(1)	10.	(2)	11.	(2)	12.	(3)	13.	(1)	14.	(1)
15.	(3)	16.	(3)	17.	(2)	18.	(2)	19.	(4)	20.	(4)	21.	(4)
22.	(4)	23.	(1)	24.	(2)	25.	(2)	26.	(4)	27.	(2)	28.	(2)
29.	(4)	30.	(1)	31.	(2)	32.	(4)	33.	(4)	34.	(2)	35.	(1)
36.	(4)	37.	(2)	38.	(4)	39.	(4)	40.	(4)	41.	(1)	42.	(4)
43.	(4)	44.	(3)	45.	(3)								