BIOLOGICAL CLASSIFICATION

1.	Which group shows the diversity?	e most extensive metabolic	8.	Choose the correct set of bacterial disease :- (1) Mumps, cholera, dengue						
	(1) Plantae	(2) Animalia		(2) Chicken pox, typ	phoid, mumps					
	(3) Monera	(4) Fungi		(3) Mumps, tetanus,	chicken pox					
2.	Archaebacteria differ f	rom other bacteria in :-		(4) Cholera, typhoid	, tetanus					
	(1) Nucleoid		9.	Choose the incorrect statement regarding						
	(2) Composition of cell	wall	10.	Mycoplasma :-						
	(3) Composition of cyto	pplasm		(1) They lack cell wall						
	(4) Composition of gen	netic material		(2) They are smallest living cell						
3 .	Which group of organ	isms is responsible for the		(3) They can survive without oxygen						
	production of biogas fr	rom the dung of cows and		(4) They have mesosome for respiration						
	buffaloes?			According to five kingdom system single-celled						
	(1) Methanomonas	(2) Methanogens		eukaroytes are placed under :-						
4.	(3) Cyanobacteria	(4) Mycoplasma		(1) Plantae	(2) Monera					
4.	Choose the correct sta	atement :-		(3) Protista	(4) Fungi					
4 . 5 .	(1) Most of the bacter	ia are autotrophs	11.	According to five kingdom system, kingdom protista includes:-						
	(2) All bacteria are he	terotrophs		(1) Dinoflagellates, Diatoms, Euglenoids, Slime						
	(3) Some bacteria are	heterotrophs		mould, Bacteria						
	(4) Most of the bacter	ia are heterotrophs		(2) Eunglenoids, Fungi, Slime mould, Dinoflagellates						
5.	_	character is common in both		Protozoans						
5.	cyanobacteria and gre			(3) Slime mould, Protozoans, Dionflagellates						
	(1) Cell wall composition			Diatoms, Euglenoids						
	(2) Presence of chloro	phyll 'a'		(4) Protozoans, Moss, Euglenoids, Slime mould						
	(3) Presence of Nif ge	ne		Diatoms						
	(4) Presence of 80s rib	oosome	12.	Cell wall of diatoms are embedded with :-						
6.	-	neric nitrogen in specialised		(1) Calcium oxylate crystals						
	cell, called :-			(2) Silica particles						
	(1) Harmocyst			(3) Iron						
	(2) Harmogonium		13.	(4) Calcium carbonate crystals						
	(3) Heterocyst			Which are chief producers of oceans?						
	(4) Akinete			(1) Diatoms	(2) Dinoflagellates					
7.		rformed by bacterial activity?		(3) Euglenoid	(4) Green algae					
	(1) Production of antib		14.	Which organism is responsible for making the sea						
	(2) Fixing nitrogen in l			appear red by rapid multiplication ?						
	(3) Making curd from	milk		(1) Euglena	(2) Noctiluca					

(3) Gonyaulax

(4) Trypanosoma

(4) Production of pseudomycelium

15. Euglenoids have a protein rich layer instead of a **22**. Mycelium of members of phycomycetes is :cell wall. This layer is called as :-(1) Septate and coenocytic (2) Aseptate and coenocytic (1) Epidermis (2) Skin (3) Septate and multicellular (3) Pellicle (4) Middle layer (4) Septate and unicellular **16.** Choose the incorrect statement from following: 23. Choose the incorrect statement about (1) Dinoflagellates have stiff cellulosic plates on the phycomycetes:outer surface (1) Members are found in aquatic habitats (2) Euglenoids have two flagella, one lies (2) Spores are endogenously produced in sporangium longitudinally and the other transversely (3) Zygospore is formed by reduction division (3) Slime mould spores are dispersed by air (4) Its members reproduce sexually may be isogamous, anisogamous or oogamous. (4) In diatoms, the cell walls form two thin 24. Which is not a member of Phycomycetes? overlapping shells, which fit together as in a (1) Albugo (2) Aspergillus soap box. (3) Rhizopus (4) Mucor **25**. Which fungus is used extensively in biochemical and 17. The cell wall of fungi are composed of :genetic work? (1) Chitin and cellulose (1) Agaricus (2) Aspergillus (2) Cellulose and polysaccharides (3) Claviceps (4) Neurospora (3) Chitin and polysaccharides **26**. Choose the incorrect statement about (4) Chitin, polysaccharides and glycogen ascomycetes:-18. Which group of organisms is used to make bread (1) Mycelium is branched and septate and beer? (2) Sexual spores are produced endogenously (2) Yeast (1) Rhizopus (3) They have sac like structure in which karyogamy takes place (3) Albugo (4) Neurospora (4) Reduction division occurs in fruiting bodies and 19. Fungus prefers to grow in :form conidia (1) Warm and humid places **27**. Which group of organism is related with (2) Cold and humid places basidiomycetes? (3) Warm and cold both (1) Mushroom, Ustilago, Aspergillus (4) Warm, cold and humid places (2) Puffballs, Agaricus, Aspergillus (3) Mushroom, Ustilago, Agaricus 20. In fungi when the hyphae are continuous and (4) Ustilago, Aspergillus, Agaricus branched tubes and fibled with multinucleated 28. Which set of diseases is caused by members of cytoplasm, these are called :basidiomycetes? (1) Unicellular hyphae (1) Rust and smut (2) Coenocytic hyphae (2) Ergot and smut (3) Multicellular hyphae

(4) Both 1 and 3

21. In fungi sexual reproduction is by :-

(4) Fission, Zoospores, Oospores

(1) Fragmentation, Ascospores and Basidiospores

(2) Budding, Conidia, and Basidiospores

(3) Oospores, Ascospores and Basidiospores

- (3) Ergot and rust
- (4) Powdery mildew and rust
- **29**. Fungi imperfacti are called,
 - (1) members of phycomycetes
 - (2) members of ascomycetes
 - (3) members of basidiomycetes
 - (4) members of deuteromycetes

- **30.** Which is not found in members of deuteromycetes?
 - (1) Asexual reproduction
 - (2) Mode of nutrition
 - (3) Structure of mycelium
 - (4) Sexual reproduction
- **31.** Which disease is not caused by a fungus?
 - (1) Late blight of potato (2) Black rust of wheat
 - (3) Red rust of pea
- (4) Ergot of rye
- **32.** Which of the following are noncellular organisms that are characterized by having an inert crystalline structure outside the living cell:-
 - (1) Bacteria
 - (2) Mycoplasma
 - (3) Virus
 - (4) Lichen
- 33. Select false statement :-
 - (1) Lichens are symbiotic association between algae & fungi
 - (2) Viruses are smaller than bacteria
 - (3) Virus name are obligate parasites
 - (4) Viruses are facultative parasite
- **34.** Which one of the following statement is true about bacteriophages?
 - (1) They are generally single stranded RNA viruses.
 - (2) They are generally double stranded DNA viruses
 - (3) They are generally single stranded DNA viruses.
 - (4) They are generally double stranded RNA viruses
- 35. Select incorrect statement about viroid :-
 - (1) Free infectious RNA
 - (2) It was discovered by T.O. Diener
 - (3) It causes potato spindle tuber disease
 - (4) It contains high molecular weight RNA
- **36.** Which is incorrect statement?
 - (1) The *Mycoplasma* are organisms that completely lack a cell wall
 - (2) Mycoplasma can survive without oxygen
 - (3) Mycoplasma are the smallest living cells.
 - (4) Mycoplasma are sensitive to penicillin

- **37.** Endomycorrhizal fungus is :-
 - (1) Pythium (2) Mucor (3) Glomus (4) Rhizopus
- 38. Generally plant viruses are :-
 - (1) Double stranded DNA viruses
 - (2) Single stranded RNA viruses
 - (3) Single stranded DNA viruses
 - (4) Double stranded RNA viruses
- **39.** Which of the following are not included in the five kingdom system of classification?
 - (a) Viruses (b) Viroid (c) Lichen (d) Prions
 - (1) only a and b
 - (2) only b, c and d
 - (3) only a and c
 - (4) All a, b, c and d
- 40. Select incorrect statement about lichens :-
 - (1) These are very good pollution indicators
 - (2) The algal component of lichen is known as phycobiont
 - (3) The fungal component of lichen is known as mycobiont
 - (4) The algal component of lichen is known as mycobiont
- 41. Select incorrect statement :-
 - (1) W.M. Stanly showed that viruses could be crystallized.
 - (2) In addition to protein coat viruses also contain genetic material that could be either RNA or DNA
 - (3) The small sub units of capsid called capsomeres
 - (4) The small subunits of capsid are called peplomers
- **42**. Which among the following was not the criteria for classification of organisms into 5 kingdoms proposed by Whittaker?
 - (1) Complexity of cell
 - (2) Phylogenetic relationship
 - (3) Mode of nutrition
 - (4) Metabolism

- **43**. Find out the wrong statement about kingdom fungi proposed by Whittaker:
 - (1) Eukaryotic organism
 - (2) Chitinous cell wall
 - (3) Multicellular with well distinct tissue system
 - (4) Heterotrophic (saprophytic or parastic) mode of nutrition
- **44**. In five kingdom classification of Whittaker, all prokaryotic organism were grouped together under kingdom monera. Among the following statements findout incorrect for Bacteria:
 - (1) Bacteria are gouped under four groups based on their shape
 - (2) They are simple in structure, but complex in behaviour
 - (3) They show most extensive metabolic diversity
 - (4) The vast majority of bacteria are autotrophs
- **45**. According to five kingdom system of classification, single celled eukaryotes are placed under protista, members of protista are primarily
 - (1) Terrestrial
- (2) Aquatic
- (3) Saprophytic
- (4) Epiphytic
- **46**. Which kingdom out of five kingdoms proposed by Whittaker, forms a link with others dealing with plants, animals and fungi?
 - (1) Monera
- (2) Protista
- (3) Plantae
- (4) Fungi
- **47**. Chrysophytes involves:
 - (1) diatoms
- (2) dinoflagellates
- (3) desmids
- (4) both 1 and 3
- **48**. Released toxins of which group of protista is the cause of death of other marine animals such as fishes:-
 - (1) Chrysophytes
 - (2) Dianoflagellates
 - (3) Desmids
 - (4) Euglenoids
- **49**. In deprived of sunlight which group of protista behave like heterotrophs by predating on other smaller organisms:-
 - (1) Slime moulds
- (2) Protozoans
- (3) Euglenoids
- (4) Dinoflagellates

- 50. Single celled eukaryotes placed under protista and they link with fungi, plants and animals. Slime moulds are saprophytic protists. What is incorrect about slime moulds:
 - Body moves along decaying twigs and leaves engulfing organic matter
 - (2) Under suitable conditions they form plasmodium which may grow and spread over several feet
 - (3) Under favourable conditions plasmodium differentiate and form fruiting body
 - (4) Their spores possesses cell wall
- **51**. Which of the following group of organisms show a great diversity in morphology and habitat :-
 - (1) Chrysophytes
 - (2) Dinoflagellates
 - (3) Protozoan protists
 - (4) Fungi
- 52. Fungi constitute a unique kingdom of heterotrophic organisms. About their reproduction which combination is not true:
 - (1) Fragmentation, Fission, Budding
 - (2) Conidia, Sporangiospores, Zoospores
 - (3) Oospore, Ascospore, Basidiospores
 - (4) Fragmentation, Zoospores, Ascospore
- **53**. On the basis of intervening dikaryotic stage which of the following fungal group is odd :
 - (1) Phycomycetes
- (2) Basidiomycetes
- (3) Ascomycetes
- (4) Club fungi
- **54**. Kingdom fungi classify into various classes based on some parameters except :
 - (1) Morphology of mycelium
 - (2) Mode of spore formation
 - (3) Dikaryophase
 - (4) Fruiting body
- **55**. Which of the following is not applicable on phycomycetes :
 - (1) Obligate parasites on plants
 - (2) Found in moist and damp places
 - (3) Septate, Coenocytic mycelium
 - (4) Endogenously produced spores

- **56**. In which class of fungi generally sex organs are absent but plasmogamy is brought about by fusion of two vegetative or somatic cells which have different strains or genotypes.
 - (1) Phycomycetes
 - (2) Ascomycetes
 - (3) Basidiomycetes
 - (4) Deuteromycetes
- 57. Ones perfect (Sexual) stages of members of deuteromycetes were discovered they were often moved to
 - (1) Phycomycetes
 - (2) Ascomycetes only
 - (3) Basidiomycetes only
 - (4) Either ascomycetes or basidiomycetes
- 58. Majority of members of deuteromycetes are
 - (1) Autotrophs
 - (2) Parasites
 - (3) Decomposers
 - (4) Symbiotic
- **59**. In kingdom plantae, alternation of generation is not associated with
 - (1) Sporophytic and gametophytic phase
 - (2) Length of haploid & diploid phases
 - (3) Number of haploid and diploid phases
 - (4) Freeliving or dependent nature of haploid & diploid phases

60. Match the column-I (name of scientist) with column-II (their contribution) and select correct option.

	Column-I		Column-II
a	D.J. Ivanowsky	i	Discovery of viroids
b	Beijerineck	ii	Crystallisation of virus
С	W.M. Stanley	iii	Contagium vivum fluidum
d	T.O. Diener	iv	Discovery of TMV

- (1) a(iv), b(iii), c(ii), d(i) (2) a(iv), b(iii), c(i), d(ii)
- (3) a(iii), b(iv), c(ii), d(i) (4) a(ii), b(iii), c(iv), d(i)
- **61**. About pathogenecity of viruses which among the following is not correct?
 - (1) Plant infecting viruses having ssRNA
 - (2) Animal infecting viruses having single or double stranded RNA or double stranded DNA
 - (3) Bacteriophages usually have double stranded RNA
 - (4) Bacterophages usually have double stranded DNA
- **62**. Virus is a connecting link between living and non living organisms, when it attack on plant, Which among the following donot appear
 - (1) Gall formation
 - (2) Mosaic formation
 - (3) Leaf rolling and curling
 - (4) Yellowing and vein clearing
- **63**. Which among the following is the characteristic of viroids
 - (1) Larger than viruses
 - (2) Have free infectious DNA
 - (3) Have free infectious RNA
 - (4) Have high molecular weight RNA

ANSWERS KEY																				
Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ans.	3	2	2	4	2	3	4	4	4	3	3	2	1	3	3	2	3	2	1	2
Que.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Ans.	3	2	3	2	4	4	3	1	4	4	3	3	4	2	4	4	3	2	4	4
Que.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	4	4	3	4	2	2	4	2	3	3	4	4	1	3	3	3	4	3	3	1
Que.	61	62	63																	
Ans.	3	1	3																	