BIOLOGICAL CLASSIFICATION

*2) Herbs, Shrubs, Trees

1. Aristotle classified plants into

1) Annuals, biennials, perennials

	3) Cryptogams, Phan	nerogams	4) Thallophytes, Nor	n-thallophytes			
2.	Linnaeus gave the c	classification living org	ganisms in his book ei	ntitled			
	1) Species plantarum	2) Systema naturae	3) Genera Plantarum	4) All			
3.	The following orga	anism falls into neith	er Plant Kingdom	nor Animal kingdom in Linnaeu			
	classification of livin	ng organisms.					
	*1) Euglena	2) Chlorella	3) Chlamydomonas	4) Volvox			
4.	Linnaeus placed un	icellular photosynthet	ic organisms under tl	he group.			
	1) Fungi	2) Bryophytes	*3) Algae	4) Pteridophytes			
5.	Five kingdom classi	fication for the classif	ication of living organ	nisms was given by			
	1) Haeckel	2) Copeland	3) Carl Woese	*4) Whittaker			
6.	Fungi were given th	ne status of Kingdom b					
	*1) Whittaker	2) Haeckel	3) Cavalier Smith	4) Copeland			
7.	ŕ	ssification, multi cellul		•			
	*1) Protista	2) Fungi	3) Plantae	4) Animalia			
8.	Match the following			·) · · · · · · · · · · · · · · · · · ·			
0.	List – I		List – II	A B C D			
	A) Monera	I) Absence of	of Cell wall	1) I II IV V			
	B) Protista	II) First Euka	aryotes	2) II I V IV			
	C) Plantae		totrophic nutrition	*3) III II IV V			
	D) Fungi	IV) Cellulosio		4) II III IV V			
		V) Chitinoou	is cell wall				
9. 10.	 9. [A]: All Monerans have cell wall [R]: Organism that causes Witches broom disease has cellulose in its cell envelope 1) Both A and R are true and R is the correct explanation of A 2) Both A and R are true but R is not the correct explanation of A 3) A is true but R is false *4) A and R are false 10. According to Five Kingdom classification, Chlorella and Chlamydomonas belong to Kingdom 						
	*1) Protista	2) Monera	3) Animalia	4) Plantae			
11.	Cell wall of Archae	ns has					
	1) Peptidoglycan		*2) N-Acetyl Talosa	mineUronic acid			
	3) N-Acetyl muramio	e acid	4) D-amino acids				
	5) 1 (11000) 1 111011011111	c acra	4) D-aiiiiio acius				

12. Rumen Archaens are

- 1) Halophiles
- 2) Thermophiles
- *3) Methanogens
- 4) Photoautotrophs

13. Cell membrane with branched chain lipids is seen in

- 1) Protista
- 2) Eubacteria
- 3) Cyanobacteria
- *4) Archaens

14. Pathogenic organisms are absent in

- 1) Eubacteria
- 2) Actinomycetes
- 3) Mycoplasmas
- *4) Archaebacteria

15. Mesosomes are

- 1) Infoldings of cell membrane of Eukaryotes
- 2) Infoldings of Cell membrane of Mycoplasmas
- 3) Infoldings of Cell membrane of Gram negative Eubacteria
- *4) Infoldings of Cell membrane of Gram Positive Eubacteria

16. The most extensive metabolic diversity is shown by

- 1) Archaebacteria
- *2) Eubacteria
- 3) Mycoplasmas
- 4) Actinomycetes

17. Match the following

List – I	List – II
A) Bacillus	I) Mycoplasma
B) Corynebacterium	II) Archaea
C) Trichdesmium	III) Actinomycete
D) Halobacterium	IV) Eubacterium
	V) Cyanobacterium

	A	D	C	D
*1)	IV	III	V	II
2)	V	III	IV	II
3)	IV	III	I	II
4)	V	IV	II	III

18. [A]: Whittaker gave kingdom status to Fungi.

[R]: In Five kingdom classification, the composition of cell wall was also considered for classification.

- *1) Both A and R are true and R is the correct explanation of A
- 2) Both A and R are true but R is not the correct explanation of A
- 3) A is true but R is false
- 4) A is false but R is true

19. Endospores are produced by

- 1) Mycoplasmas
- 2) Actimycetes
- *3) Eubacteria
- 4) Cyanobacteria

20. These are the smallest living cells

- *1) Mycoplasmas
- 2) Archaebacteria
- 3) Actinomycetes
- 4) Protists

21. Mycoplasmas cause the following disease in plants.

- 1) Mosaic
- *2) Witches broom
- 3) Chlorosis
- 4) Canker

22. Non-chlorophyllous organism that can trap the light energy and convert it into ATP is

- 1) Methanobacterium 2) Sulpholobus
- *3) Halobacterium
- 4) Thermoplasma

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23.	Pleuroneumonia in	cattle i	s caused by						
	1) Archaea	2) Eu	bacteria	3) Actinomycetes	*4) Mycoplasmas				
24.	Mycoplasma is								
	1) Spherical	2) Ro	d shaped	3) Spirillum	*4) Pleomorphic				
25.	Oxygenic photosyn	thetic n	noneran is						
	1) Halobacterium	2) Th	ermoplasma	*3) Anabaena	4) Chlorobium				
26.	Match the followin	g							
	List – l			List – II	A B C D				
	A) Urethritis in man		I) Archaeb		1) IV V II III				
			II) Cyanoba		*2) IV V II I				
	C) Heterocyst		III) Actinon		3) V IV I II 4) III V II I				
	D) L-Glycerol IV) Mycopl V) Eubacte				4) III V II I				
			v) Eubacte	iiuiii					
	[A]: Nostoc fixes be [R]: It has heterocy 1) Both A and R are *2) Both A and R as 3) A is true but R is 4) A is false but R is Centroplasm of Cy	yst. true and re true b false s true	d R is the corre ut R is not the		4				
	1) Ribosomes		s vacuoles	*3) Chromosome	4) RNA				
29.	Cells with gelatino	ŕ	A A		,				
	1) Eubacteria	2) Are		*3) Cyanobacteria	4) Eugelnoids				
30.	These organisms are non-flagellated								
	1) Archaea		bacteria	3) Euglenoids	*4) Cyanobacteria				
31.	Hormogonia are			-					
	1) Fragments of fila	ments o	f filamentous b	acteria					
	2) Fragments of Eul	acteria							
	3) Cleaved protopla	st of My	coplasmas						
	*4) Fragments of Tr	ichome	s of Cyanobact	eria					
32.	Akinetes are the re	produc	ing structures	of					
	*1) Cyanobacteria	2) Eu	bacteria	3) Mycoplasmas	4) Archaea				
33.	These are branche	d filame	entous monera	nns					
	*1) Actinomycetes	2) Eu	bacteria	3) Cyanobacteria	4) Archaea				
34.	Mycolic acid is the	cell wa	ll component o	of					
	1) Eubacteria			2) Gram negative ba	acteria				
	*3) Cyanobacteria			*4) Actinomycetes					

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35. Match the following

List – I	List – II
A) Corynebacterium	I) Mycoplasma
B) Anabaena	II) Archaea
C) Salmonella	III) Cyanobacterium
D) Methanogen	IV) Eubacterium
	V) Actinomycete

В \mathbf{C} D A I 1) II IV V 2) V III IV II 3) IV V II Ι 4) V III IV Ι

- 36. [A]: Streptomyces is an Actinomycete.
 - [R]: It forms radiating colonies in Cultures.
 - *1) Both A and R are true and R is the correct explanation of A
 - 2) Both A and R are true but R is not the correct explanation of A
 - 3) A is true but R is false
 - 4) A is false but R is true
- 37. Mycobacterium is
 - *1) Parasite
- 2) Saprophyte
- 3) Chemoautotroph
- 4) Photoautotroph

38. Boundaries of this kingdom are not well defined

- 1) Monera
- *2) Protista
- 3) Plantae
- 4) Animalia

39. Protistans without histones are

- 1) Diatoms
- 2) Euglenoids
- 3) Protozoans
- *4) Dinoflagellates

40. Golden algae are

- *1) Chrysophytes
- 2) Dinoflagellates
- 3) Euglenoids
- 4) Green algae

41. Kieselghur is cell walls of

- 1) Golden algae
- *2) Diatoms
- 3) Dinoflagellates
- 4) Myxomycetes

42. This is Whirling Whip

- 1) Diatom
- *2) Noctiluca
- 3) Pinnularia
- 4) Euglena

43. Auxospores are seen in

- *1) Diatoms
- 2) Dinoflagellates
- 3) Bacteria
- 4) Euglenoids

44. Match the following

List – I	List – II
A) Bioluminiscence	I) Euglena
B) Red Tide	II) Trichdesmium
C) Red sea	III) Trichoderma
D) Cytostome	IV) Gonyoulax
	V) Noctiluca

В \mathbf{C} D V III II 1) IV 2) II IV III IV II III *4) V IV II Ι

45. [A]: Noctiluca is a dinoflagellate

[R]: It has two parallelly arranged flagella

- 1) Both A and R are true and R is the correct explanation of A
- 2) Both A and R are true but R is not the correct explanation of A
- *3) A is true but R is false
- 4) A is false but R is true

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46. Cell wall is made of cellulose in

- *1) Dinoflagellates
- 2) Diatoms
- 3)Euglenoids
- 4) Ciliates

47. Stigma is present in

- 1) Eubacteria
- 2)Archaebacteria
- *3)Euglenoids
- 4) Paramecium

48. Mesokaryotes do not have

- 1) Nuclear envelope 2) nucleolus
- *3) Histones
- 4) DNA

49. Pellicle is present in

- 1) Dinoflagellates
- *2) Euglenoids
- 3) Slime moulds
- 4) All

50. Choose the correct statement

- 1) Pellicle is rich in lipids
- *2) Chromosomes of dinoflagellates are always in condensed state
- 3) Euglenoids have sexual reproduction
- 4) Slime moulds are ancestors of Plantae

51. Heterokontic flagella are seen in

- I. Dinoflagellates
- II. Cyanobacteria
- III.Euglenoids
- IV Amoeboid protists

- 1) I, II, IV
- 2) II, III, IV
- *3) I, III
- 4) II, III

52. Eyespot of euglenoids is more associated with

- 1) Pellicle
- 2) Nucleus
- 3)Chromatophore
- *4) Reservoir

53. Match the following

List – I	List – II
A) Palmelloid stage	I) Marine amoeboids
B) Plasmodium	II) Dinoflagellate
C) Silica shells	III) Diatoms
D) Sulcus	IV) Slime moulds
	V) Euglenoids

	A	В	C	D
*1)	V	IV	I	II
2)	V	IV	I	III
3)	IV	V	II	III
4)	IV	III	I	II

54. [A]: Euglena shows heterotrophic nutrition

[R]: It lacks chlorophylls

- 1) Both A and R are true and R is the correct explanation of A
- 2) Both A and R are true but R is not the correct explanation of A
- *3) A is true but R is false
- 4) A is false but R is true

55. The resemblance of Euglena with higher plants is

1) Presence of flagella

- 2) Presence of pyrenoid
- *3) having similar type of chlorophylls
- 4) has no similarity at all

56. Fruiting bodies are seen in

- 1) Euglenoids
- *2) Slime moulds
- 3)Dinoflagellates
- 4)Chrysophyceae

57.	The parasitic protis	ts are							
	I. Entamoeba II. Trypanosoma		III. Plasmodium						
	1) I, II	2) I, II	I	3) II, III *4) I, II, II		II, III			
58.	Sleeping sickness in	man is	caused by a						
	1) Dinoflagellate			2) Amoeboid protoz	zoan				
	*3) Flagellated proto	zoan		4) Ciliated protozoa	an				
59.	Spores have cell wal	ll but n	ot the main boo	ly of the organism in	n				4
	1) Sporozoans	2)amo	oeboids	*3) Slime moulds	4)	No:	ne		
60.	These are saprophy	tic pro	tists						
	*1) Slime moulds	_	lenoids	3) Protozoans	4) Dia	toms		
61.	Dikaryophase is see	, ,		,	,				
	1) All fungi		protists	3)Myxomycetes	*4	4) Sc	me f	ungi	
62.	Match the following		1					υ	
	List – I			List – II		A	В	C	D
	A) Rust fungus		I) Penicilliui	m	1)	V	IV	II	I
	B) White spot Mustard	on	II) Yeasts		*2)	V	IV	II	III
	C) Bread making		III) Albugo		3)	IV	V	I	II
	D) Source of antibi	otics	IV) Rhizopus		4)	III	IV	II	I
(2			V) Puccinia						
03.	[A]: Chitin is a poly [R]: It is made of po								
	*1) Both A and R are								
	2) Both A and R are to 3) A is true but R is f		R is not the cor	rect explanation of A	L				
	4) A is false but R is								
64.	Dikaryotic stage is s	een in							
	I. Ascomycetes	II. Bas	sidiomycetes	III.Phycomycetes	I	/.De	utero	myc	etes
	1) I, III	2) II, I	II	3) III, IV	*2	4) I,	II		
65.	Zoospores are form	ed in							
	1) Ascomycetes	2) Bas	idiomycetes	*3)Phycomycetes	4)	Deu	teron	nyce	tes
66.	Bread mould is								
	1) Alternaria	*2) Rł	nizopus	3) Penicillium	4)	Yea	asts		
67.	Puff balls belong to								
	1) Phycomycetes	2)Asc	omycetes	*3)Basidiomycetes	4)	Deu	teron	nyce	tes

68. Ascogenous hyphae are seen in the life cycle of 1) Aspergillus 2)Polyporous 3)Albugo 4)Lycoperdon 69. The following fungus is extensively used in genetical and biochemical studies 2) Penicillium *3)Neurospora 1) Claviceps 4)Saccharomyces 70. Sex organs are absent in I. Basidiomycetes II. Ascomycetes III.Phycomycetes IV.Deuteromycetes 1) I, II 2) I. III 3) II, III *4) I. IV 71. Match the following List – I List – II В \mathbf{C} D A A) Lycoperdon I) Bracket fungus 1) V IV Ι Ш B) Ustilago II) Mushroom *2) V IV II Ι III C) Agaricus III) Bread mould 3) IV V IV) Smut fungus D) Polyporous II IV V) Puff Balls 72. [A]: Ascospores are sexual spores [R]: These are formed exogenously after meiosis 1) Both A and R are true and R is the correct explanation of A 2) Both A and R are true but R is not the correct explanation of A *3) A is true but R is false 4) A is false but R is true 73. Penicillum has 3)Perithecium 1) Basidiocarp 2) Apothecium *4)Cleistothecium 74. This is Cup shaped fruiting body of Fungi 1) Basidiocarp *2) Apothecium 3)Perithecium 4)Cleistothecium 75. These are edible fungi I. Truffles II. Morels III. Mushrooms IV. Toadstools 2) III only 1) I, II only 3) I, II, IV *4) I, II, III 76. Asexual reproduction is rare in the following group of fungi 1) Ascomycetes *2)Basidiomycetes 3)Phycomycetes 4)Deuteromycetes 77. Somatogamy is seen in *1) Basidiomycetes 2) Ascomycetes 3)Deuteromycetes 4)Phycomycetes 78. Choose the wrong statement 1) Sex organs are present in Ascomycetes 2) Sex organs are present in Phycomycetes *3) Sex organs are present in Basidiomycetes

4) Sex organsare absent in Deuteromycetes

79. Choose the correct statements

	I. Sexual reproduction	is shown by Basic	diomycetes					
	II. Sexual reproduction is absent in Deuteromycetes							
	III. Asexual reproduction is absent in Basidiomycetes							
	IV. Phycomycetes show gametogamy							
	*1) I, II, IV	2) II, III, IV	3) I, II, III	4) I, IV, III				
80.	Match the following							
	List – I		List – II	A B C D				
	A) Biocontrol	I) Ustilo	igo	1) IV III I V				
	B) Early blight in po			*2) III IV V II				
	C) Red rot in Sugar			3) III V IV I				
	D) Rust fungus	IV) Altern		4) III IV V I				
	[A]: Deuteromycetes		totrichum					
82.	-	rue and R is the corue but R is not the alse true	rrect explanation of A correct explanation of A					
	1) Noctiluca	2) Cuscuta	*3)Bladerwort	4) Rye				
83.	This is parasitic plan	ıt.						
	1) Euglena	2) Trypanosoma	3) Venus-fly-trap	*4) Cuscuta				
84.	Living organisms th	at show holozoic	nutrition and having	multicellular body are	placed in the			
	following kingdom b	y whittaker	"					
	1) Monera	2) Protista	3) Animalia	*4) Plantae				
85.	Six kingdom classific	cation was given b	ру					
	1) Copeland	2) Haeckel	3) Whittaker	*4) Carl Woese				
86.	The following biom	olecule was used	by Carl Woese to st	tudy the phylogenetical	l relationships			
	among the organism	S.						
-001	1) Transfer RNA	*2) ribosomal RN	A 3) messenger RNA	A 4) DNA				
87.	Progenote is the com	mon ancestral gr	oup to					
	1) Archaea	2) Bacteria	3)Eukarya	*4) All				

88. Choose the correct statement

- 1) Archaea and Bacteria are more closely related according to Carl Woese
- *2) Archaea and Eukarya are more closely related according to 3 domain classification
- 3) Domain Bacteria has two kingdoms
- 4) Bacteria and Eukarya are more closely related according to 6 kingdom classification

89. Match the following

List – I	List – II
A) Infectious protein	I) Trichoderma
B) Infectious nucleic acid	II) Lichen
C) Infectious nucleio- protein	III) Prion
D) Symbiont	IV) Viroid
	V) Virus

	A	В	C	I
*1)	III	IV	V	I
2)	IV	V	III	I
3)	III	V	IV	Ţ
4)	TTT	137	17	

- 90. [A]: Viruses did not find a place in classification of living organisms.
 - [R]: Viruses do not have cellular structure
 - *1) Both A and R are true and R is the correct explanation of A
 - 2) Both A and R are true but R is not the correct explanation of A
 - 3) A is true but R is false
 - 4) A is false but R is true
- 91. The term Virus was given by

1) Iwanowsky

*2) Pasteur

3) Jenner

4) Leeuwenhoek

92. Capsid is

- 1) Protein of Prion
- 2) Nucleic acid of Viroid
- 3) Nucleic acid of Virus
- *4) Protein coat of Virus

93. Diener discovered

1) Archaea

2) Viruses

*3) Viroids

4) Prions

94. Choose the correct pair

1) Prions - DNA

2) Virus – only DNA

*3) Viroid - RNA

4) Viroid - Protein

95. Tobacco mosaic virus has

1) DNA and Protein

2) RNA and Carbohydrate

*3) RNA and Protein

4) RNA, Protein and Carbohydrate

96. These organisms are incapable or multiplying in the absence of host.

I. Viruses

II. Viroids

III.Prions

IV. Bacteria

1) I, II, IV

2) II, III, IV

3) I, III, IV

*4) I, II, III

97. Scrapie disease in Sheep is caused by

- *1) Prions
- 2) Viroids
- 3)Virusoids
- 4) Viruses

98. Match the following

List – I	List – II
A) Madcow disease	I) Lichen
B) Potato spindle tuber	II) Virus
C) Bacteriophage	III) Alga
D) Mycobiont	IV) Viroid
	V) Prion

 \mathbf{C} \mathbf{D} В III 1) IV II Ι 2) II IV Ι II IV II I III I IV

99. [A]: HIV is a virus

[R]: It has RNA

- 1) Both A and R are true and R is the correct explanation of A
- *2) Both A and R are true but R is not the correct explanation of A
- 3) A is true but R is false
- 4) A is false but R is true

100.[A]: Lichens are indicators of Air pollution

[R]: They are resistant to air pollutants

- 1) Both A and R are true and R is the correct explanation of A
- 2) Both A and R are true but R is not the correct explanation of A
- *3) A is true but R is false
- 4) A is false but R is true