FIRST YEAR HIGHER SECONDARY PRE MODEL EXAMINATION

Part – III BIOLOGY PART – A BOTANY

FYCBTA22/1 KEY Maximum score: 30

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		Split	Total
Q.No.	PART-I	score	score
1	Prions	1	1
2	Diatoms	1	1
3	(c) Hyphae	1	1
4	Basidiocarp	1	1
5	Pellicle	1	1
6	(d) T.O. Diener	1	1
7	Methanogens	1	1
8	Slime moulds	1	1
9	Deuteromycetes	1	1
10	Protein coat of the virus	1	1
	PART-II		
11	a) Red dinoflagellates [Gonyaulax] Leachers	1	
	Red tide is harmful because the toxins released by Gonyaulax may kill	1	2
	other marine animals such as fishes.		
12	a) Heterocysts	1	
	b) Nostoc and Anabaena	1/2 +1/2	2
13	Mosaic formation, leaf rolling and curling, yellowing and vein clearing, dwarfing	½ x4	
	and stunted growth. [any 4]		2
14	a) Mycorrhiza	1	
14	b) Bacterial viruses or bacteriophages	1	2
		_	
15	A-Coccus(spherical), B-Bacillus (rod-shaped), C-Spirillum (spiral-shaped)	½ x4	
4.5	D-Vibrium (comma-shaped)	1,	2
16	(a)	1/2	
	Salty areas Hot springs Marshy areas	1/2	2
	b) Halophiles Thermoacidophiles Methanogens	1/ ₂ 1/ ₂	
	Having a different cell wall structure	72	
17	(i) Puccinia	1	
17	(ii) Ustilago	1	2
	(h) comago	1	
18.	a) Phycobiont	1/2	
-2.	b) Mycobiont	1/2	2
	c) Lichens are very good pollution indicators, they do not grow in polluted	1	
	areas.		
19.	a) Dinoflagellates	1/2	
	b) Euglena	1/2	
	c) Slime mould	1/2	2
	d) Paramoecium	1/2	
20.	a) Dead remains of diatoms are known as 'diatomaceous earth'	1	
			2
	b) 1. Used in polishing / Filtration of oils and syrups [Any 1]	1	
	PART III		
21	a) Sleeping sickness - Trypanosoma	1/2	
	b) Malarial parasite - <i>Plasmodium</i>	1/2	
	c) Cilia -Paramoecium	1/2	3

	d) Pseudopodia - Amoeba	1/2	
	e) Smallest living cell -Mycoplasma	1/2	
	f) Golden algae - Desmids	1/2	
22	(a) Photosynthetic Autotrophic bacteria (any 1 points)		
	-Form blooms in polluted water bodies.	1	
	-Fix atmospheric nitrogen		
	(b) Chemosynthetic Autotrophic bacteria (any 1 point)		
	-Oxidise various inorganic substances such as nitrates, nitrites and ammonia	1	
	-Recycle nutrients like nitrogen, phosphorus, iron and sulphur.		3
	(c) Heterotrophic bacteria (any 1 point)		
	-Decomposers.	1	
	-Making curd from milk,		
	-Production of antibiotics,		
	-Fixing nitrogen in legume roots,		
	-Pathogens cause damage to human beings, crops, farm animals and pets.		
23	a) (i) Fusion of protoplasms between two motile or non-motile gametes		
	called plasmogamy.		
	(ii) Fusion of two nuclei called karyogamy.	1 1/2	
	(iii) Meiosis in zygote resulting in haploid spores.		
	b) In some fungi (ascomycetes and basidiomycetes), karyogamy does not		3
	takes place immediately after plasmogamy	1 1/2	
	So an intervening dikaryotic stage $(n + n, i.e., two nuclei per cell)$ occurs;		
	such a condition is called a dikaryon and the phase is called dikaryophase		
24	a) R.H. Whittaker	1/2	
	b) Cell structure, body organisation, mode of nutrition, reproduction and		
	phylogenetic relationships	21/2	3
25	A - Ascomycetes		
	B - Coenocytic		
	C - Branched and septate	½ x 6	3
	D - Aplanospore		
	E- Conidiospore		
	F - Basidiospore		
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