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F-320

M.Sc. (First Semester) EXAMINATION, Dec. - Jan., 2021-22 BOTANY

Paper Third
Microbiology, Phychology and Mycology

Time : Three Hours] [Maximum Marks : 80

[Minimum Pass marks : 16

Note: Attempt all sections as directed-

Section - A

(Objective/multiple choice Questions)

(1 mark each)

Note: Attempt all question.

Choose the correct answers:-

- 1. Which of the following shows complex symmetry?-
 - (A) T. M. V.
 - (B) Herpes
 - (C) Pox virus
 - (D) Bacteriophage

2. In which part respiration enzyme present in bacteria-

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- (A) E. R.
- (B) Mitochendria
- (C) Ribosomes
- (D) Cell membrane
- 3. In cyanobacteria where the nitrogen is fixed-
 - (A) Akinetes
 - (B) Val note
 - (C) Harmagenes
 - (D) Heterocysts
- 4. Which of the following bacterium is found in extreme saline condition?-
 - (A) Myco bacteria
 - (B) Eubacteria
 - (C) Archebacteria
 - (D) lyrobacteria
- 5. Which of the following character differes archebacteria from Eubacteria?-
 - (A) Mode of Nutrition
 - (B) Reproduction
 - (C) Cell membrane
 - (D) None of the above.

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6.	6. Which of the following disease caused by viruses?		
	(A)	Dysentry	
	(B)	Phemonia	
	(C)	Small pox	
	(D)	Malaria	
7. Viral ge		genome attached to bacterial genome is called as -	
	(A)	Prophage	
	(B)	Lytic lycle	
	(C)	Lysogeny	
	(D)	None of the above.	
8. An icosahedral capsid consists of -		cosahedral capsid consists of -	
	(A)	Hexagenal capsomers	
	(B)	Triangular capsomers	
	(C)	Polygenal capsomers	
	(D)	None of the above.	
9.	The	The pyrenoids are -	
	(A)	Protein bodies with starch envelope	
	(B)	Starch bodies	
	(C)	Lipid	
	(D)	None of the above.	

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10.	The	pigment tucoxanthin is found in:-	
	(A)	polysiphonia	
	(B)	Zygnema	
	(C)	Laminaria	
	(D)	All of the above-	
11.	Erect Hatened, dichotomously branched thalli are		
	(A)	Ectocarpus	
	(B)	Spriogyra	
	(C)	Dictyota	
	(D)	Memalion.	
12.	Which of the following algae called "water net" is:-		
	(A)	Cladophora	
	(B)	Chara	
	(C)	Hydrodictyon	
	(D)	Pediastrum	
13.	Reserve food material Horidean starch is found in-		
	(A)	Brown algae	
	(B)	Red algae	
	(C)	Xanthephycene	
	(D)	Chlorophycene	

- 14. The life cycle of polysiphonia is -
 - (A) Haplobiontic
 - (B) Haplo diplobiontic
 - (C) Diplontic
 - (D) None of the above-
- 15. In which class flagella is not found -
 - (A) Bacillariophyceop
 - (B) Chlorophyceol
 - (C) Charophyceop
 - (D) Rhodophyceop
- 16. Coprophilous fungi grow on-
 - (A) Dung
 - (B) Wood
 - (C) Grasses
 - (D) Animal
- 17. Sexual reproduction absent in-
 - (A) Ascomycetes
 - (B) Phycomycetes
 - (C) Basidiomycetes
 - (D) Deuterungcetes

- 18. Aflatoxin is produced by-
 - (A) Bacteria
 - (B) Fungi
 - (C) Nematode
 - (D) All of above.
- 19. Clamp connection are very common in-
 - (A) Ascomycetes
 - (B) Basidiomycetes
 - (C) Deuteromycetes
 - (D) Phycemycetes
- 20. Mycerhiza is a
 - (A) Fungus association with stem
 - (B) AFungi association with root
 - (C) Bacteria association with root
 - (D) None of the above.

Section - B

(Very Short Answer Type Questions)

(2 marks each)

Note: Attempt any eight questions.

1. Name the bacterium responsible for botulisum disease.

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- 2. What is the main component of cell wall of Bacteria.?
- 3. Define plakea stage.
- 4. write two examples of which show Anisogamy.
- 5. What is the role of Heterocysts.?
- 6. Difine Auxospore.
- 7. Name the fruiting body found in fungi.
- 8. Define "fungi Imperfecti".
- 9. Define Archebacteria.
- 10. Name any two edible fungus.

Section - C

(Short Answer Type Questions)

(3 marks each)

Note: Attempt all questions.

- 1. Define virulent and temperate phage in Bacteria.
- 2. Define symmetry of viruses.
- 3. Define fruiting body apothecium.
- 4. Describe Nutrition in fungi.
- 5. Define rust & shout disease.
- 6. What is photoautotrops.
- 7. Describe Basidium & Basidiosperes.

Section - D

8. Define "fungi Imperfecti".

(Long Answer Type Questions)

(5 marks each)

Note: Attempt any four questions.-

- 1. Deescribe conjugation in Bacteria.
- 2. Describe Ultrastructure of cyanobacterial cell
- 3. Write note on sexual reproduction found in algae with suitable example.
- 4. Write salient features of Mycorrhiza
- 5. Discuss structure & role of Heterocysts.
- 6. Explain Multiplication of viruses.
- 7. Describe fruiting body of Phodophyceae.
- 8. Describe Isomorphic alternation of generation in phaeophyceae.