

MSB
First Semester
Lower plant Diversity-I
(MSB-01)

Duration: 3Hrs.

Full Marks: 70

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

1. Give a very short answer of the following (any five)

2x5=10

- a) What is Bacterial Conjugation?
- b) Compare Phycomycetes with Fungi Imperfecti.
- c) Cell structure of Fungi.
- d) Harmful effect of Virus.
- e) What is Cyanobacteria?
- f) Mention two economic importances of Diatoms.
- g) Define dwarf male of *Oedogonium*.

2. Write short notes on (any five)

3x5=15

- a) TMV
- b) Shape and structural diversity in Bacteria.
- c) Ascomycetes
- d) Characteristics of Fungi.
- e) Reproduction in Lichen.
- f) Write short notes on salient features of Rhodophyceae.
- g) Write in short on the sexual reproduction in algae.

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3. Answer the following questions (any five)

5x5=25

- a) Describe the economic importance of Fungi.
- b) Life cycle of Phythium.
- c) Explain the mode of reproduction in bacteria.
- d) What is Bacteriophage? Make a short note on the structure and reproduction in virus.
- e) "Economically Lichens are very important" explain the theme.
- f) Write down on any five economic benefits of algae.
- g) Describe with suitable diagram the sexual reproduction of Spirogyra.

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PART A: Objective

Duration: 20 minutes

Marks – 20

Tick the correct answer.

1x20=20

1. Akinetes are
 - a) Thin walled elongated spores
 - b) Thick walled spirally coiled spores
 - c) Thick walled elongated spores
 - d) Thin walled rounded spores
2. Phycocyanin is a
 - a) Yellow pigment
 - b) Blue pigment
 - c) Green pigment
 - d) None of the above
3. Diatoms reproduce by
 - a) Auxospores
 - b) Hormospores
 - c) Autospores
 - d) Aplanospores
4. Batrachospermum is a
 - a) Marine algae
 - b) Both a & c
 - c) Fresh water algae
 - d) Neither a nor c
5. Cyanophycean algae reproduce by
 - a) Sexually & asexually
 - b) Vegetatively
 - c) Asexually & vegetatively
 - d) Both a & b
6. Fungal cell wall is mainly made up of
 - A) Chitin
 - B) cellulose
 - C) lignin
 - D) protein
7. Mode of nutrition in Fungi is
 - A) Saprophytic
 - B) parasitic
 - C) Autotrophic
 - D) both A and B
8. Sexual reproduction is absent in
 - A) Ascomycetes
 - B) Phycomycetes
 - C) Fungi Imperfecti
 - D) none

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9. Absorbing organ present in Fungi is known as
 A) Haustoria B) root C) septa D) none
10. Bacteria was observed, found and described by
 A) Leewenhoek B) a scientist from north east India
 C) E. Morris D) Pasteur
11. Long hair-like appendages meant for locomotion in Bacteria is known as
 A) Mycelium B) Bacterial hair C) Bacterial root D) flagella
12. Which is present in Bacteria?
 A) Mitochondria B) Ribosome C) both D) none
13. TMV is an example of
 A) Animal Virus B) plant Virus C) tomato Virus D) all the above
14. Lysogenic cycle was discovered by
 A) A. Lwoff B) A.P.J.A. Kalam C) both D) none
15. Genetic material present in Virus
 A) DNA B) RNA C) Both D) either A or B
16. Binary fission is absent in
 A) Bacteria B) Bacteriophage C) both D) none
17. The fungus component of the Lichen is called
 A) Mycobiont B) Fug-lichen C) Phycobiont D) all
18. Which is a vegetative structure associated with Lichen thallus?
 A) Isidia B) Soredia C) conidia D) both A and B
19. Lichens are mainly classified on the basis of
 A) Fungal partner B) Algal partner C) both D) chemical composition of cell wall
20. Epipellic algae is
 A) Attached to stone C) Free floating
 B) Attached to plants D) Attached to sand or mud
