



K22P 1563

Reg. No. :

Name :

I Semester M.Sc. Degree (CBSS – Reg./Sup./Imp.)
Examination, October 2022
(2019 Admission Onwards)

BOTANY

BOT1C01 : Phycology, Mycology and Lichenology

Time : 3 Hours

Max. Marks : 60

Instruction : Draw diagrams wherever necessary.

SECTION – A

(Answer any two.) (Either a or b.)

1. a) Explain the range of thallus organization in Chlorophyceae.

OR

- b) Briefly explain the asexual and sexual reproduction in lichens.

2. a) Explain the economic importance of Algae.

OR

- b) Explain different types of reproduction in Fungi.

(2×8=16)

SECTION – B

(Answer any two.) (1 mark for part a; 2 marks for part b; 3 marks for part c.)

3. a) Describe the plasmodesmata in Rhodophyceae.

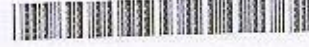
- b) Differentiate the structure of *Rivularia* and *Gleotrichia*.

- c) What are the different types of reserve found in different groups of algae ?

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4. a) Name one parasitic fungus which infect Cruciferae members.

- b) Mention four major criterias of algal classification followed in Fritsch system.

- c) What are the general character of Chytridiomycota ?

5. a) What is Plasmodium ?

- b) Explain the vegetative reproduction in Bacillariophyceae.

- c) Explain the sexual reproduction in *Fritschella*.

(2×6=12)

SECTION – C

(Answer any six.)

6. Describe the structure of algal flagella.

7. Explain the salient features of *Chlamydomonas*.

8. Explain the sporulation in *Ustilago*.

9. Explain the structure of Apothecium.

10. Explain the sexual reproduction in *Phytophthora*.

11. Explain Algal hypothesis to explain phylogeny of fungi.

12. Explain the mycelium of *Saprolegnia*.

13. Explain clamp connections.

(6×3=18)

SECTION – D

(Answer any seven.)

14. Differentiate Isogamy and Anisogamy.

15. Mention the features of chromatophore of *Pheophyta*.



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16. Asexual reproduction in *Xylaria*.

17. What are the different deteriorating activities of fungi ?

18. Nutrition diversity in Fungi.

19. What is carageenin ?

20. How algae is used as biofertilizer ?

21. Explain algal bloom.

22. Describe the structure of *Ulva*.

23. What are aplanospores ?

(7×2=14)