



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 ?

P.T.O.



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 *Fritschiella*.

(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*.

CENTRAL LIBRARY



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)

