



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.

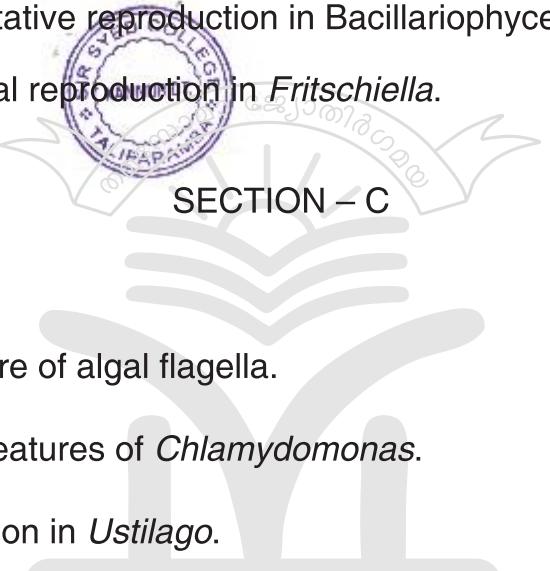
- b) Differentiate the structure of *Rivularia* and *Gleotrichia*.

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



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 ?
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5. a) What is Plasmodium ?
 - b) Explain the vegetative reproduction in Bacillariophyceae.
 - c) Explain the sexual reproduction in *Fritschiella*.

(2x6=12)

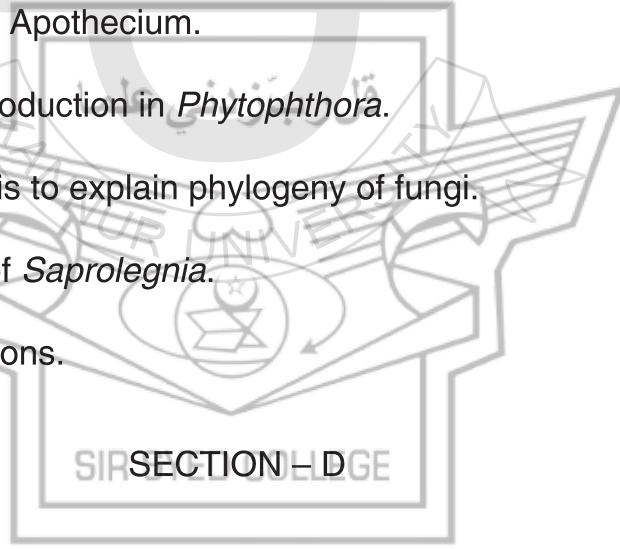


SECTION – C

(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.

(6x3=18)



SECTION – D

(Answer any seven.)

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14. Differentiate Isogamy and Anisogamy.
15. Mention the features of chromatophore of *Pheophytia*.



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)

