

(Pages : 3)

N – 4239

Reg. No. :

Name :

First Semester B.Sc. Degree Examination, June 2022

Career Related First Degree Programme under CBCSS

Group 2 (a) Botany and Biotechnology

**BB 1141 : PHYCOLOGY, MYCOLOGY, LICHENOLOGY AND PLANT
PATHOLOGY**

(2015 – 2018 Admission)

Time : 3 Hours

Max. Marks : 80

Draw diagrams wherever specified.

I. Answer **all** questions. Each question carries **1** mark.

1. What is heterocyst?
2. What is the male sex organ in *Chara*?
3. Name any one algae producing zoospore with many flagella.
4. Name the alga with r-phycoerythrin.
5. Name the source plant of alginate.
6. Name the kind of stored food in fungi.
7. What is basidium?

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8. Comment on the role of fungi in lichen.
9. Define conidia.
10. Name the causative organism of citrus canker.

(10 × 1 = 10 Marks)

II. Answer **any eight** of the following Short answer questions; each question carries **2** marks.

11. Describe algal bloom.
12. Write a note on haplontic life cycle.
13. What is nanandrium?
14. Describe pyrenoid. What is its function?
15. Write a note on heterotrichous habit.
16. Make a comment on poisonous fungi.
17. Draw the structure of ascus.
18. Write a short note on fungal nutrition.
19. Comment on alternation of generation.
20. Write a note on economic importance of *Cercospora*.
21. What are various kinds of lichens based on the habits.
22. Describe the symptoms of leaf mosaic disease of Tapioca.

(8 × 2 = 16 Marks)

Answer **any six** of the following. Short essay questions. Each question carries **4** marks.

23. What are the types of sexual reproduction of Algae.
24. Make an account on the uses of agar in food industry.
25. Describe the thallus structure of *Cladophora*.
26. What are the variations of the chloroplasts in Chlorophyceae.
27. Write an account on the sexual reproduction in Oedogonium. Draw diagrams.
28. Describe the fruiting body of *Agaricus* with diagrams.
29. Describe the apothecium of *Peziza*.
30. Describe the thallus of *Usnea* with diagrams.
31. Make an account on the causative organism, symptoms, dissemination mechanism and control measures of blast disease of paddy.

(6 × 4 = 24 Marks)

Answer **any two** of the following. Long essay questions; Each questions carries **15** marks.

32. What is thallus? Write a detailed account on various thallus organizations of algae. Add examples and diagrams.
33. Describe the life cycle of *Polysiphonia* with neat diagrams and flow chart.
34. Write an essay on the economic importance of fungi.
35. Make an outline of the classification of fungi by Ainsworth.

(2 × 15 = 30 Marks)
