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S – 3614

Reg. No. :

Name :

Third Semester B.Sc. Degree Examination, February 2024

Career Related First Degree Programme under CBCSS

Botany and Biotechnology

Core Course IV

**BB 1341 : PHYCOLOGY, MYCOLOGY, LICHENOLOGY AND PLANT
PATHOLOGY**

(2019 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer all the questions in a word or one or two sentences. Each question carries 1 mark.

1. What is cleistothecium?
2. What is raphe?
3. List the host plants of *Puccinia*.
4. Define soredia.
5. Name the fungus known as Deadman's finger.
6. Why *Chlorella* is used in space ships?
7. What is ejection?

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8. Define akinete.
9. What are macrocyclic fungi?
10. Name the causative organism of root wilt of coconut.

(10 × 1 = 10 Marks)

SECTION – B

Answer any **eight** questions. Each question carries **2** marks. (Answer not to exceed one paragraph)

11. What are HAB's?
12. Draw the structure of apothecium in *Peziza*.
13. List the characteristic features of *Nostoc*.
14. Explain the thallus of *Usnea*.
15. Discuss the economic importance of fungi in agriculture.
16. Comment on host parasite interaction.
17. What is trichogyne? What is its function?
18. Explain the disease cycle and control measures in blast disease of paddy.
19. Explain dikaryotisation with example.
20. Describe the structure of cystocarp in *Polysiphonia*.
21. What is anisogamy?
22. Differentiate between ascus and basidium.

(8 × 2 = 16 Marks)

SECTION – C

Answer any **six** questions. Each question carries **4** marks. (Answer not to exceed **120** words)

23. Briefly describe the thallus morphology of *Sargassum*.
24. Enumerate the major characteristics of Zygomycotina.
25. Explain the formation of plakea stage.
26. Lichens acts as indicators of pollution. Justify.
27. Comment on *Saccharomyces*.
28. How cap cells are formed in *Oedogonium*?
29. Explain the composition and usage of any two fungicides.
30. Differentiate between uredospore and teleutospore.
31. Discuss the range of thallus structure in algae.

(6 × 4 = 24 Marks)

SECTION – D

Answer any **two** questions. Each question carries **15** marks. (Answer not to exceed three pages)

32. Give an account of economic importance of algae.
33. Explain the development of basidiocarp in *Agaricus* with illustrations.
34. Explain sexual reproduction in *Chara*, describing the structure of reproductive organs.
35. Explain the classification of fungi by Ainsworth.

(2 × 15 = 30 Marks)