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Reg. No. : .....

Name : .....

First Semester B.Sc. Degree Examination, June 2022

Career Related First Degree Programme under CBCSS

BB 1141/BV 1141.1 : PHYCOLOGY, MYCOLOGY, LICHENOLOGY AND PLANT PATHOLOGY

(Common for Group 2 (a) : Botany and Biotechnology (2013 and 2014 Admission) and

Group 2 (b) : Biotechnology (Multimajor)

(2013 and 2018 Admission)

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. Define a coenobium.

2. Name the principal pigment in Phaeophyceae.

3. What is Tikka disease?

4. Which is the fungi used for commercial production of Penicillin?

5. What is Plakea stage?

6. Name an algae showing isomorphic alteration of generations.

7. What is a foliose lichen?

8. Mention any two symptoms of viral disease in plants.

9. What is an eucarpic mycelium?

10. List any two industrial products from algae.

(10 × 1 = 10 Marks)

SECTION – B

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

11. What is a heterocyst? What is its function?

12. Describe the vegetative structure of *Rhizopus*.

13. What is Bordeaux mixture? What is its use?

14. List the industrial applications of lichen.

15. What are HAB's?

16. Illustrate the structure of fruiting body in *Peziza*.

17. What is an autospore?

18. Explain the thallus morphology in *Vaucheria*.

19. What is a mycorrhiza? What is its significance?

20. Explain the sex organs in *Chara*.

21. What is conidia?

22. Describe vegetative reproduction in Yeast.

(8 × 2 = 16 Marks)

SECTION – C

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

23. What are the salient features of Myxomycotina?

24. List the medicinal uses of fungi.

25. Explain auxospore formation in *Pinnularia*.

26. How do parasitic plants benefit from the host?

27. Explain the mode of sexual reproduction in lichen.

28. Discuss the range of thallus structure in Chlorophyceae.

29. Explain the perithecium in *Xylaria* with illustation.

30. How cap cells are formed in *Oedogonium*?

31. Explain the structure of gills in *Agaricus*.

(6 × 4 = 24 Marks)

SECTION – D

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

32. Describe the life cycle of *Puccinia graminis* with suitable illustrations.

33. Explain alternation of generations with reference to life cycle of *Polysiphonia*.

34. Give a detailed account on classification of algae by Fritsch.

35. Explain the disease cycle and control measures in Leaf Mosaic of Tapioca and Blast disease of Paddy.

(2 × 15 = 30 Marks)

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