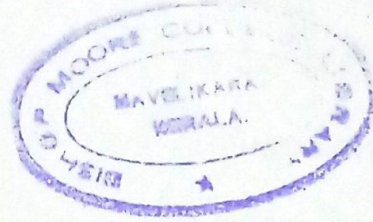


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N – 2779

Reg. No. :

Name :

Third Semester B.Sc. Degree Examination, March 2022

Career Related First Degree Programme under CBCSS

Group 2(a) Botany and Biotechnology

Vocational Course

BB 1341 – PHYCOLOGY, MYCOLOGY, LICHENOLOGY AND PLANT
PATHOLOGY

(2019 & 2020 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** questions in a word or **one** or **two** sentences. **Each** question carries **1** mark. Draw diagrams wherever necessary.

1. List the types of spores produced in *puccinia*.
2. Name a bacterial plant disease and its causative organism.
3. Write the control measures of Leaf Mosaic of *Tapioca*.
4. Comment on the nutritional habit of fungi.
5. Define heterothallism.
6. Name an algae with tetraspores.
7. Write the function of the fungal part in lichen.

8. What are algal blooms?
9. Define a coenobium.
10. What is hormogonia?

(10 × 1 = 10 Marks)

SECTION – B

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

11. How will you prepare tobacco decoction?
12. Why is *Puccinia* called heteroecious fungus?
13. Describe the thallus structure of *Sargassum*.
14. What is Plakea stage?
15. What is coprophilous fungi? Give an example.
16. Distinguish anisogamy and oogamy.
17. What is a pyrenoid? What is its function?
18. What is a heterocyst?
19. Enumerate the symptoms of root wilt of coconut.
20. What is nannandrium?
21. What is a dikaryon?
22. Give the name of
 - (a) A fungus causing disease in crop plants
 - (b) A fungus called bread mold

23. Explain the formation of cap cells in *Oedogonium*.
24. What is diatomaceous earth?
25. What are the pigments in *Phaeophyceae*?
26. Enumerate the salient features of *Myxomycotina*?

(8 × 2 = 16 Marks)

SECTION – C

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

27. Explain auxospore formation in *Pinnularia*.
28. Write the characteristic features of *Agaricus*.
29. Give a brief account on the sex organs of *Chara*.
30. Brief a note on asexual reproduction in *Penicillium*.
31. Describe the sexual reproduction in yeast.
32. Explain the ecological importance of lichen.
33. Write notes on host-parasite interaction in plants.
34. Discuss the range of thallus variation in *chlorophyceae*.
35. Explain sexual reproduction in *Vaucheria*.
36. Describe the general characters of *Cyanophyceae*.
37. Explain the sexual reproduction in *Rhizopus*.
38. Give an account on the symptoms and control measures of Blast disease of Paddy.

(6 × 4 = 24 Marks)

SECTION – D

Answer **any two** questions. (Not more than **3** pages.) Each question carries **15** marks.

39. Describe the life cycle of *Polysiphonia*.
40. Give an account on the classification of fungi as proposed by Ainsworth.
41. With labeled diagram describe the life cycle of *Puccinia*.
42. Elaborate on the economic importance of algae.
43. Give an account on symptoms, causative organism, disease cycle and control measures of bunchy top disease of banana.
44. Discuss the useful and harmful aspects of fungi.

(2 × 15 = 30 Marks)