



Reg. No. :

Name :

First Semester B.Sc. Degree Examination, February 2018
(Career Related First Degree Programme Under CBCSS)
Group 2(a) : BOTANY AND BIOTECHNOLOGY
Core Course : I

BB 1141 : Phycology, Mycology, Lichenology and Plant Pathology
(2015 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 **one** mark. Draw diagrams **wherever** necessary

1. What are algal blooms ?
2. Define clamp connection.
3. Why lichens are known as pollution indicator ?
4. Mention the reserve food materials present in Phaeophyceae.
5. Define plasmodium.

6. Which fungal class is known as 'fungi imperfecti' ?

7. Name any two algae used as biofertilizers.

8. What is Bordeaux mixture ?

9. Name the causal organism of Citrus canker.

10. Name a unicellular fungi.

(1×10=10 Marks)



SECTION – B

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

11. Explain the role of Cyanophyceae in soil fertility.
12. What are trichoblasts ? Where do you find it ?
13. Explain the Plakea stage of Volvox.
14. Explain fungal symbiosis with one example.
15. Differentiate conidiospore from chlamydospore.
16. List out any four economically important penicillium species.
17. Mention the biotic causes of plant diseases.
18. Describe the preparation of tobacco decoction.
19. How Teliomycetes differ from Hymenomycetes ?
20. Mention any four features of myxomycetes.
21. What are caps cells ? Mention their function.
22. Describe the internal structure of the stipe of Sargassum. **(2×8=16 Marks)**

SECTION – C

Answer **any six** questions. Answer **not to exceed 120** words. **Each** question carries **four** marks.

23. Describe the coenobial architecture of Volvox.
24. Differentiate nannandrous and macrandrous species of Oedogonium.
25. With the help of labelled diagram explain the VS of gills of Agaricus.



26. Give the outline of classification of algae by Fritch.
27. Explain the asexual reproduction in *Penicillium*.
28. Describe the importance of biological control of plant diseases.
29. Describe the economic importance of lichens.
30. Write notes on algal pigments.
31. Explain the asexual reproduction seen in *Vaucheria*.

(4×6=24 Marks)

SECTION - D

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

32. Give a detailed account on the general characteristics of Algae.
33. Explain the macro cyclic life cycle of *Puccinia graminis*.
34. Give an account of the post-fertilization changes seen in *Polysiphonia*.
35. Write an essay on the causal organism, symptoms, etiology and control measures of citrus canker.

(15×2=30 Marks)