



K17U 1948

Reg. No. :

Name :

III Semester B.Sc. Degree (CBCSS-Reg.Supple./Imp.)
Examination, November 2017
(2014 Admn. Onwards)
CORE COURSE IN BOTANY/PLANT SCIENCE
3B03 BOT/PLS : Phycology, Mycology and Lichenology

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer all.

1. Sexual reproduction is absent in
 - a) Ascomycetes
 - b) Basidiomycetes
 - c) Deuteromycetes
 - d) Myxomycetes
2. The black rust of wheat is caused by
 - a) Puccinia
 - b) Penicillium
 - c) Rhizopus
 - d) Peziza
3. Alginic acid is found in the cell walls of
 - a) Cyanophyceae
 - b) Chlorophyceae
 - c) Phaeophyceae
 - d) Rhodophyceae
4. Corona are structures associated with the sex organs of
 - a) Polysiphonia
 - b) Sargassum
 - c) Chara
 - d) Volvox

(4×1=4)

SECTION – B

Answer any eight.

5. Describe the cell structure of Oedogonium.
6. Briefly describe the classification of lichens based on thallus morphology.

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7. Explain the pycnidial stage in Puccinia.
8. Differentiate between holocarpic and eucarpic fungi.
9. Give the economic importance of blue green algae.
10. Explain the classification of bacteria based on flagellation.
11. Discuss the role of sex pili in bacteria.
12. Explain the lysogenic cycle of a bacteriophage.
13. Write the various methods of asexual propagation present in Chlamydomonas.
14. Describe the branching pattern present in Cladophora.
15. Explain the sexual reproduction in Ulothrix.
16. Explain the Congrosira stage in Vaucheria. (8×2=16)

SECTION – C

Answer **any four**.

17. Describe the various types of pigments present in different classes of algae.
18. What are the advanced features of Charales ?
19. Explain the role of algae in soil fertility.
20. Describe the nannandrous type of sexual reproduction in Oedogonium.
21. What are the different nutritional types of bacteria ?
22. Explain the asexual reproduction in Penicillium. (4×3=12)

SECTION – D

Answer **any one**.

23. Discuss the economic significance of fungi.
 24. With neat diagrams explain the reproductive methods noticed in Volvox.
 25. Explain the various methods of reproduction seen in Vaucheria. (1×8=8)
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