K18U 1878

III Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.)
Examination, November 2018
(2014 Admn. Onwards)
CORE COURSE IN BOTANY/PLANT SCIENCE
3B03 BOT/PLS : Phycology, Mycology and Lichenology

Time : 3 Hours   Total Marks : 40

SECTION – A

Answer **all** :

1. Cap cells are seen in the thallus of
   a) Spirogyra   b) Chara   c) Ulothrix   d) Oedogonium

2. Amylum stars are the vegetative reproductive structures of
   a) Chara   b) Volvox   c) Puccinia   d) Rhizopus

3. An example of coprophilous fungi is
   a) Rhizopus   b) Penicillium   c) Peziza   d) Cercospora

4. The common bread mould is
   a) Peziza   b) Penicillium
   c) Rhizopus   d) Agaricus   (4×1=4)

SECTION – B

Answer **any eight** :

5. Lichens are called ecological indicators. Why ?

6. Give the significance of blue green algae.

7. What are the different types of asexual spores seen in Polysiphonia ?

8. Explain the androspore formation in Oedogonium.

P.T.O.

9. Describe the various views regarding the nature of relationship between the alga and the fungus in a lichen thallus.

10. What are cryptostomata and cryptoblasts ?

11. List out the economic importance of phage particles.

12. The blue green algae are called cyanobacteria. Why ?

13. Differentiate between gram positive and gram negative bacteria.

14. Describe the structure of a bacteriophage.

15. How are endospores formed in the bacteria ?

16. What are archae bacteria ?   (8×2=16)

SECTION – C

Answer **any four** :

17. Describe the cell structure of Chlamydomonas.

18. Explain sexual reproduction in Ulothrix.

19. What is a synzoospore ?

20. Give the cell structure of Yeast.

21. Explain the asexual mode of propagation seen in Peziza.

22. What is the structure of apothecium in Usnea.   (4×3=12)

SECTION – D

Answer **any one** :

23. Describe the life cycle of the filamentous red alga you have studied.

24. Discuss the range of thallus structure and reproduction in Chlorophyceae.

25. Write in detail about the conjugation and transduction in bacterium.   (1×8=8)