



M 7836

Reg. No. : .....

Name : .....

I Semester B.Sc. Degree (CCSS – Regular) Examination, Nov. 2014  
(2014 Admn.)

COMPLEMENTARY COURSE IN BOTANY/PLANT SCIENCE  
1C01 BOT/PLS : Diversity of Life – Microbes and Thallophytes

Time : 3 Hours

Total Marks : 32

SECTION – A

Answer all :

1. Which of the following is a heteroecious fungus ?  
a) Rhizopus      b) Usnea      c) Puccinia      d) None of the above
2. The reserve food present in Rhodophyceae  
a) Manitol      b) Floridean starch  
c) Laminarin      d) Agar
3. \_\_\_\_\_ is an appendage produced by bacteria for cell to cell attachment.  
a) Pili      b) Flagellum      c) Trichome      d) Rhizine
4. Bacteriophages are  
a) Bacteria      b) Fungus      c) Virus      d) Algae
5. The antherozoid of Chara is \_\_\_\_\_  
a) Biflagellate      b) Uniflagellate      c) Multiflagellate      d) Aflagellate      (5×1=5)

SECTION – B

Answer any four :

6. Describe the internal structure of the thallus of Sargassum with diagrams.
7. What is a coenozygote ? How is it formed ?

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8. Give an account of the sex organs of Chara.
9. With the help of a diagram explain the structure of Spirogyra.
10. Write an account on the beneficial activities of Bacteria.
11. How do cyanobacteria increase soil fertility? (4×2=8)

SECTION – C

Answer any three :

12. Write an account on the economic importance of Fungi.
13. Compare the characteristics of prokaryotes and eukaryotes.
14. Describe the structure of apothecium of Usnea with the help of a labeled diagram.
15. Explain the methods of reproduction in Spirogyra.
16. What is helotism? Illustrate it with an example you have studied. (3×3=9)

SECTION – D

Answer any two :

17. With the help of neat labeled diagrams describe the methods of reproduction in Volvox.
  18. What is a heteroecious fungus? Write the example you have studied and describe the life cycle with diagrams.
  19. Explain the structure and sexual reproduction of bacteria with diagrams.
  20. Define haplobiontic life cycle and describe it in the life cycle of Polysiphonia. (2×5=10)
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