



K16U 2486

Reg. No. :

Name :

**I Semester B.Sc. Degree (C.C.S.S.-Reg./Supple./Improv.) Examination,
November 2016**

**COMPLEMENTARY COURSE IN BOTANY/PLANT SCIENCE
1C01 BOT/PLS : Diversity of Life – Microbes and Thallophytes
(2014 Admn. Onwards)**

Time : 3 Hours

Max. Marks : 32

SECTION – A

(Answer all)

1. Fungi absorb their nourishment from the host with the help of _____
 - a) Roots
 - b) Conidiophores
 - c) Haustoria
 - d) Bristles
2. Which one of the following produces non motile male gametes ?
 - a) Polysiphonia
 - b) Sargassum
 - c) Nostoc
 - d) Chara
3. Storage product of brown algae is
 - a) Floridian starch
 - b) Laminarin
 - c) Agar
 - d) Oil globules
4. _____ produce coenozygospore after sexual reproduction.
 - a) Usnea
 - b) Puccinea
 - c) Rhizopus
 - d) Nostoc
5. Lophotrichous bacteria have
 - a) Flagella all over the cell
 - b) A tuft of flagella at one end
 - c) Single flagellum at one end
 - d) No flagellum

(5×1=5)

P.T.O.



SECTION – B

(Answer **any four**)

6. Describe the thallus of polysiphonia.
7. Give an account on the methods of nutrition in Fungi.
8. Write an account on the characteristic features of cyanobacteria.
9. Describe the different types of chloroplasts present in Algae.
10. What are the methods of reproduction in Nostoc ?
11. Describe the structure of bacteriophage. (4×2=8)

SECTION – C

(Answer **any three**)

12. What are the salient features of Algae ?
13. Write an account on the asexual reproduction of Rhizopus with diagram.
14. Illustrate the sexual reproduction in Usnea.
15. Describe the structure of a spirogyra filament and write an account on the scalariform conjugation with diagrams.
16. What is heterocyst ? Write any four functions. (3×3=9)

SECTION – D

(Answer **any two**)

17. Compare the five kingdom and six kingdom classification of living organisms.
 18. Which fungus causes black rust disease of wheat ? Name the two host plants on which the fungus completes its life cycle. Describe the different types of spores produce by this fungus with diagrams.
 19. With the help of diagrams explain the various methods of reproduction in Chara.
 20. What is a coenobium ? Describe the structure and life cycle of the example of coenobium you have studied with diagrams. (2×5=10)
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