



Reg. No. :

Name :



K15U 0572

I Semester B.Sc. Degree (CCSS – Reg./Supple./Improv.) Examination,
November 2015

(2014 Admn. Onwards)

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

Time : 3 Hours

Total Marks : 32

SECTION – A

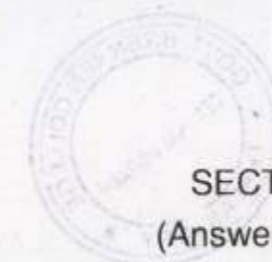
(Answer all)

- Which one of the following is a binucleate spore ?
 - Basidiospore
 - Aplanospore
 - Endospore
 - Aecidiospore
- Sexual reproduction is absent in
 - Spirogyra
 - Polysiphonia
 - Nostoc
 - Volvox
- Usnea is a
 - Fruticose lichen
 - Crustose lichen
 - Foliose lichen
 - Leptose lichen
- The protein coat of virus is called
 - Pyrenoid
 - Capsid
 - Head
 - Capsule
- The characteristic colour of Rhodophyceae is due to the presence of
 - Phycocyanin
 - Xanthophyll
 - Phycocerythrin
 - Fucoxanthin

(5×1=5)

P.T.O.

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SECTION – B
(Answer **any four**)

6. Give the vegetative structure of Sargassum.
7. What are the different types of lichens based on external form ?
8. Explain Plaque. Write an example in which this phenomenon is found.
9. Give an account on the nutritional types of bacteria.
10. Describe the scalariform conjugation in Spirogyra.
11. Write an account on the different methods of vegetative reproduction in Chara.

(4×2=8)

SECTION – C
(Answer **any three**)

12. With the help of diagrams explain the lytic cycle in the reproduction of bacteriophage.
13. Write the salient features of Fungi.
14. Differentiate Archaea with Eubacteria.
15. Describe the asexual reproduction in Rhizopus with diagrams.
16. Explain the thallus structure and hormogonia formation in Nostoc.

(3×3=9)

SECTION – D
(Answer **any two**)

17. Describe the anatomy of axis and sexual reproduction in Sargassum with diagrams.
18. Name the fungus that causes black stem rust disease. Describe the different spore stages of this fungus with diagrams.
19. With the help of labeled diagrams describe the anatomy of thallus and sexual reproduction in Usnea.
20. Explain the structure and life cycle of a bacterium with diagrams.

(2×5=10)