



K20U 3308

Reg. No. : .....

Name : .....

**I Semester B.Sc. Degree CBCSS (OBE) Reg./Sup./Imp.**  
**Examination, November 2020**  
**(2019 Admn. Onwards)**  
**COMPLEMENTARY ELECTIVE COURSE IN BOTANY**  
**1C01BOT : Microbiology, Phycology, Mycology and Lichenology**



Time : 3 Hours

Max. Marks : 40

**Instruction : Draw diagrams wherever specified.**

**PART - A**

Objective type questions. Answer **all**.

**(4×1=4)**

1. The circular depressions on the lower side of a Lichen is called
  - a) breathing pores
  - b) isidia
  - c) cyphellae
  - d) cephalodia
2. The ascocarp of the *Penicillium* is usually a
  - a) perithecium
  - b) apothecium
  - c) cleistothecium
  - d) pseudothecium
3. The eight celled stage in the development of daughter colony of *Volvox* is called
  - a) octant
  - b) octomere
  - c) plakea
  - d) plactant
4. The chloroplast of *Oedogonium* is
  - a) discoid
  - b) reticulate
  - c) stellate
  - d) parietal

**PART - B**

Short essay questions. Answer **any eight**.

**(8×2=16)**

5. Distinguish between Gram positive and Gram negative bacteria.
6. Explain the vegetative structure of *Spirogyra*.

P.T.O.



7. Distinguish between prokaryotes and eukaryotes. .... Reg. No. : .....
8. Comment on diplobiontic type of life cycle. .... Name : .....
9. Discuss the economic importance of algae.
10. Explain the structure of "dwarf male".
11. Explain the vegetative structure of *Nostoc* filament.
12. Describe the thallus structure of *Usnea*.
13. What are heteroecious fungi ?
14. Comment on "algal bloom".
15. Explain the thallus structure of *Penicillium*.
16. Explain the salient features of fungi.

## PART – C

Essay questions. Answer **any four**. (4×3=12)

17. Describe the sexual reproduction in *Rhizopus*.
18. Write a general account on fungal reproduction.
19. Give the thallus structure of *Sargassum*.
20. Briefly explain the structure and formation of daughter colonies through asexual method in *Volvox*.
21. Explain the method of cell division and cap formation in *Oedogonium*.
22. Illustrate the structure of sex organs in *Chara* with neat and labelled diagram.

## PART – D

Long essay questions. Answer **any one**. (1×8=8)

23. Write an essay on the life cycle of *Oedogonium*.
24. With suitable diagrams, explain the life cycle of *Polysiphonia*. Add notes on its post fertilization changes.
25. Briefly outline the classification of fungi proposed by Ainsworth.