K24U 4007

Reg.	No.	:	
24			

Name :

First Semester B.Sc. Degree (C.B.C.S.S.- OBE-Supplementary/
Improvement) Examination, November 2024
(2019 to 2023 Admission)
COMPLEMENTARY ELECTIVE COURSE IN BOTANY
1C01BOT: Microbiology, Phycology, Mycology and Lichenology

Time : 3 Hours Max. Marks : 40

Instruction : Draw diagrams wherever specified.

PART - A

Short answer questions. Answer all.

 $(4 \times 1 = 4)$

- 1. Ability of bacteria to change their shape under certain conditions is called
 - a) autophagyc) pluralism
- b) pleomorphism
- 2. Spores produced in Fungi at the tip of branched hyphae
- d) transformation
- a) conidia b) isidia c) oidia d) sporangia
- Reserved food in Phaeophyceae
- ae
- a) starch
- b) oils
- c) laminarin
- d) floridean starch
- 4. The fruiting body of Penicillium is called
 - a) perithecium
- b) cleistothecium
- c) apothecium
- d) endothecium

PART - B

Answer any eight.

 $(8 \times 2 = 16)$

- 5. What is an endospore ?
- Distinguish between macrandrous and nannandrous forms in Oedogonium.

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- Explain algal blooms.
- Summarize different types of pigments seen in algae.
- 9. Differentiate between zoospore and chlamydospore.
- 10. What are Pyrenoids?
- 11. Differentiate between carposporophyte and tetrasporophyte of Polysiphonia.
- 12. Differentiate between holocarpic and eucarpic fungi.
- Write four difference between gram positive and gram negative bacteria.
- 14. Describe the methods of vegetative propagation in lichens.
- 15. Explain the types of lichens based on their thallus forms.
- Explain morphological types of bacteria.

PART - C

Answer any four.

 $(4 \times 3 = 12)$

- 17. Write a brief note on economic importance of lichen.
- 18. Outline the general characters of Rhodophyceae.
- Write a note on range of thallus variation in algae.
- 21. Write a brief note on economic importance of fungi.

Explain sexual reproduction in Spirogyra with suitable diagrams.

22. Describe the sexual reproduction in Rhizopus.

PART - D

Answer any one.

(1×8=8)

- 23. Describe briefly the various types of spores involved in the life cycle of Puccinia.
- 24. Comment on economic importance of microbes.
- 25. Explain the thallus structure and reproduction in Sargassum.