## CENTRAL LIBRARY N.C.COLLEGE

## 2023/FYUG/ODD/SEM/ BOTDSC-102T/038

# FYUG Odd Semester Exam., 2023 (Held in 2024)

#### BOTANY

( 1st Semester )

Course No. : BOTDSC-102T

( Phycology and Mycology )

Full Marks: 70
Pass Marks: 28

Time: 3 hours

The figures in the margin indicate full marks for the questions

### SECTION-A

Answer ten questions, selecting any two from each
Unit:
2×10=20

#### UNIT-I

- 1. Point out the pigments found in algae.
- 2. Write briefly on the role of algae in agriculture.
- 3. Write the contributions of M.O.P. Iyengar.

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# UNIT—II

- 4. Write a short note on the morphology of Chara.
- 5. Write a short note on the reserve food materials of Phaeophyta and Rhodophyta.
- 6. What are unilocular and plurilocular sporangia?

## Unit—III

- 7. Write two differences between plants and animals.
- 8. Write a short note on lichen.

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9. What do you mean by holocarpic and eukarpic thallus?

#### UNIT-IV

- 10. Write a short note on heterothallism.
- 11. Write briefly on parasexuality.
- 12. Distinguish between uredospores and teleutospores.

(Continued)

#### UNIT-V

- 13. Mention two roles of fungi in biotechnology.
- 14. Name two mycoproteins and their role.
- 15. Name two fungi used for making organic acids.

#### SECTION—B

Answer *five* questions, selecting *one* from each Unit: 10×5=50

# Unit—I

- 16. Describe Fritsch's system of classification of Algae. Mention the significant contributions of G. M. Smith. 8+2=10
- 17. Write a detailed account of the cell structure and its components of algae. Describe the various methods of reproduction in algae.

5+5=10

## UNIT—II

- 18. With necessary sketches, describe the thallus structure and asexual reproduction of *Chlamydomonas*.
- 19. Give a detailed account of post-fertilization changes in *Polysiphonia* with suitable diagrams. Add a note on the evolutionary significance of *Prochloron*. 6+4=10

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## (4)

#### UNIT-III

20. Describe the classification of fungi as proposed by Ainsworth.

21. What are mycorrhizae? Describe the various types and significance of mycorrhizal association. 2+4+4=10

## UNIT—IV

- 22. Give the general characteristic, life cycle and classification of black stem rust of wheat caused by *Puccinia*.
- 23. With suitable diagrams give an account on the life cycle and classification of Saccharomyces. Add a note on the reproduction of Penicillium. 6+4=10

## UNIT-V

- 24. Discuss the application of fungi in food industry. Add a note on Fermentation. 6+4=10
- 25. Give an account of the process of mushroom cultivation. Name four species of edible mushroom. Add a note on mycotoxins.

6+2+2=10

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