

**2024/FYUG/ODD/SEM/
BOTDSM-101T/074**

FYUG Odd Semester Exam., 2024

**BOTANY
(1st Semester)**

Course No. : BOTDSM-101T

(Biodiversity)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

UNIT—I

1. Answer any *two* from the following questions :
2×2=4

(a) Write the characteristic features of virus.

(b) Write a note on T-phage virus.

(c) Define lysogenic and lytic cycle.

2. Discuss the types of bacterial reproduction. 10

OR

3. Write a note on the economic importance of virus.

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(Turn Over)

(2)

UNIT—II

4. Answer any *two* from the following questions : $2 \times 2 = 4$

- (a) Define heterocysts with example.
- (b) Write the contribution of F. E. Fritsch.
- (c) Write the important characteristic feature of algae.

5. With neat sketches, discuss the morphology and life cycle of *Chara*. 10

OR

6. Write in detail the economic importance of algae.

UNIT—III

7. Answer any *two* from the following questions : $2 \times 2 = 4$

- (a) Mention the economic importance of lichen.
- (b) Define heterothallism with example.
- (c) Define mycorrhiza with example.

8. With schematic representation, discuss the life cycle of *Puccinia*. 10

OR

9. Mention the general characteristics of fungi. Add the significance of mycorrhiza. $5 + 5 = 10$

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(3)

UNIT—IV

10. Answer any *two* from the following : $2 \times 2 = 4$

- (a) Mention the characteristic features of bryophyte.
- (b) Write the systematic position of *Marchantia*.
- (c) Write about the unifying features of archegoniate.

11. Write short notes on the following : $5 + 5 = 10$

- (a) Alternation of generation in bryophytes.
- (b) Evolution of sporophytes in bryophytes.

OR

12. Write in detail the economic importance of bryophytes. 10

UNIT—V

13. Answer any *two* from the following : $2 \times 2 = 4$

- (a) What is stelar organization?
- (b) Mention the names of two gymnospermic plant and their uses.
- (c) Write the characteristic features of pteridophytes.

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(4)

14. Discuss the morphology and reproduction in *Lycopodium*. Add diagrams. 10

OR

15. Discuss the classification of gymnosperm up to orders.

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