

**2024/TDC (CBCS)/EVEN/SEM/
BOTHCC-202T/028**

TDC (CBCS) Even Semester Exam., 2024

BOTANY

(2nd Semester)

Course No. : BOTHCC-202T

(Archegoniate)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

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

UNIT—I

1. Answer any two questions : 2×2=4
- (a) What are archegoniates? State the divisions of the group archegoniate. 1+1=2
- (b) Write a note on archegonium. 2
- (c) Illustrate the haplontic type of alternate of generation. 2
2. (a) Give an account of the adaptive strategies developed in the members of archegoniate to survive on land. 6

(2)

Or

- (b) Write elaborately the unifying features of archegoniates.

UNIT—II

3. Answer any *two* questions : 2×2=4

- (a) Write a note on the life cycle pattern of bryophytes.
- (b) State the general characters of Hepaticopsida.
- (c) Write a short note on rhizoids.
4. (a) Bryophytes are called the 'amphibians among plant world'. Justify it. 6

Or

- (b) Give an account of the range of thallus organization in bryophytes.

UNIT—III

5. Answer any *two* questions : 2×2=4

- (a) Write a note on gemma cup.
- (b) What is 'peat moss'?
- (c) Write a note on 'apophysis'.

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(Continued)

(3)

6. (a) Give an account of the ecological and economic significance of *Sphagnum*. 6

Or

- (b) Give a comparative account of the gametophytic structure of *Riccia* and *Sphagnum*.

UNIT—IV

7. Answer any *two* questions : 2×2=4

- (a) Write a brief note on *Cooksonia*.
- (b) State the difference between Apospory and Apogamy.
- (c) Write a short note on rhizophore.

8. (a) Classify pteridophytes up to order level with examples of each order. 6

Or

- (b) Write an illustrated note on heterospory and seed habit with special reference to *Selaginella*.

UNIT—V

9. Answer any *two* questions : 2×2=4

- (a) Write a short note on pollination mechanism in *Pinus*.

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(Turn Over)

(4)

- (b) State the characteristics of pteridosperms.
- (c) Write a note on coralloid root of *Cycas*.
10. (a) Describe the morphology of male cone of *Cycas* along with necessary diagrams. 4+2=6
- Or
- (b) Write a detailed note on the economic importance of gymnosperms. 6
