

**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 :  $2 \times 2 = 4$

- (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 :  $2 \times 2 = 4$

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

( 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 :  $2 \times 2 = 4$

- (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 :  $2 \times 2 = 4$

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

( 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

\*\*\*