



## 2019/TDC/EVEN/BOTHCC-202T/036

TDC (CBCS) Even Semester Exam., 2019

### 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. Write short notes on any two of the following : 2×2=4

- (a) Transition to land habit
- (b) Structure of archegonium
- (c) Adaptations to terrestrial mode of life

2. (a) Write a note on the unifying features of archegoniate. 6

Or

- (b) Describe alternation of generation with reference to archegoniate.



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UNIT—II

3. Write short notes on any two of the following : 2×2=4
- (a) Amphibians of plant kingdom
  - (b) Characteristic features of Bryophytes
  - (c) Thallus organization in Bryophytes
4. (a) Give an account on the evolution of Sporophytes in Bryophytes. 6
- Or
- (b) Write a note on the classification of Bryophytes.

UNIT—III

5. Write short notes on any two of the following : 2×2=4
- (a) Internal structure of the thallus of *Marchantia*
  - (b) Vegetative reproduction in *Anthoceros*
  - (c) External morphology of *Funaria*
6. (a) Why is *Anthoceros* considered to be synthetic genus? Discuss. 6
- Or
- (b) Write notes on ecological and economic significance of Bryophytes with special reference to *Sphagnum*. 3+3=6

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( Continued )

( 3 )

UNIT—IV

7. Write short notes on any two of the following : 2×2=4
- (a) Sporangia of *Rhynia*
  - (b) Apospory
  - (c) Rhizome of *Equisetum*
8. (a) What is seed habit in *Selaginella*? Discuss the biological importance of heterospory. 3+3=6
- Or
- (b) Give an account of the stellar evolution in pteridophytes. 6

UNIT—V

9. Write short notes on any two of the following : 2×2=4
- (a) Salient features of living gymnosperms
  - (b) Coralloid root of *Cycas*
  - (c) Female cone of *Pinus*
10. (a) Write a note on the economic importance of gymnosperms. 6
- Or
- (b) With reference to the life history of *Gnetum*, discuss the resemblance of *Gnetum* with a dicotyledonous angiospermic plant.

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