2022 B.A./B.Sc. Second Semester CORE – 4

BOTANY

Course Code: BOC 2.21 (Archegoniate)

Total Mark: 70 Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

- 1. Define bryophytes. How are the bryophytes adapted to land habitat? Explain. 2+12=14
- 2. Discuss the unifying characters of archegoniate. Give the classification of bryophytes. 7+7=14

UNIT-II

- 3. *Marchantia* is a dioecious plant. Explain in detail with appropriate labelled diagrams.
- 4. Discuss the external structure of mature gametophores of *Sphagnum*. Mention some of the economic importance of bryophyte. 8+6=14

UNIT-III

- 5. Explain in detail the reproduction in *Selaginella* with appropriate diagrams.
- 6. Write notes on the following: $7 \times 2 = 14$
 - (a) Equisetum strobilus
 - (b) Stelar evolution

UNIT-IV

7.	Discuss the systems of classification of gymnosperms.	14
8.	Write notes on the following: (a) Reproductive structures of <i>Cycas</i> (b) Economic importance of gymnosperms	7×2=14
UNIT-V		
9.	Give an account of dominant fossil flora of different ages.	14
10.	What are fossils? Explain the various fossil types and add not general process of fossilization.	es on the 2+8+4=14