



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY
Question Paper

B.Sc. Honours Examination 2022

(Under CBCS Pattern)

Semester - II

Subject : BOTANY

Paper : C 4-T

Archegoniate

Full Marks : 40

Time : 2 Hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

- A. Answer any **four** of the following questions : 5×4=20
1. Discuss the ecological and economic importance of Bryophytes. 5
 2. Describe with labelled diagram the sporophytic structure of *Anthoceros* sp. 5
 3. What is coralloid root? Describe in brief the ecological importance of coralloid root. 2+3
 4. Write down the general characters of *Selaginella* sp. Mention two important xerophytic characters of *Equisetum*. 3+2
 5. Discuss the economic importance of Gymnosperm. 5
 6. Describe the labelled diagram the sporophytic structure of *Sphagnum* sp. 5

P.T.O.

B. Answer any *two* of the following questions :

10×2=20

1. Describe the modern classification of Bryophytes. Why Bryophytes are called amphibians of plant groups? 7+3
2. What is Telome theory? How the evolution of megaphyllous leaves of pteridophytes can be explained through Telome theory? Explain with diagram. 2+8
3. Mention the Angiospermic characters of *Gnetum*. Discuss the morphological nature of ovuliferous scale found in *Pinus*. 5+5
4. State the short notes on : 2½×4
 - (a) Differentiate between apospory and apogamy. 2½
 - (b) Incipient heterospory 2½
 - (c) Fern characters of *Cycas* leaflet. 2½
 - (d) Syngial structure of *Psilotum*. 2½
