



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

Question Paper

B.Sc. Honours Examination 2023

(Under CBCS Pattern)

Semester — II

Subject : BOTANY

Paper : C-4T

(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.

Answer **all** questions.

1. Answer any **five** questions from the following :
2×5=10

(a) What is coralloid root?

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(Turn Over)

(2)

(b) Name two Indian species of *Porella*.

(c) Distinguish between perichaetium and perigynium.

(d) Give botanical names of two edible ferns.

(e) In which geological age *Cooksonia* exist?
Write two important features of *Cooksonia*.

(f) What is sulphur shower?

(g) Mention two fern characters of *Cycas*.

(h) What is transfusion tissue?

2. Answer any **four** questions from the following :
5×4=20

(a) Draw and describe briefly the sporophyte of *Riccia*. Why is it considered as simplest among bryophytes? 3+2=5

(b) Draw and describe the structure of mature capsule of *Funaria*. 2+3=5

(c) What is telome? Describe the origin of sporangiophore of *Equisetum*, according to the telome theory. 2+3=5

(d) Discuss briefly the evolution of stele among Pteridophytes. 5

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(Continued)



(3)

(e) Briefly describe two types of gametophyte development in *Lycopodium*. 5

(f) Draw and describe the male cone of *Cycas*. 5

3. Answer **any one** question from the following :
10×1=10

(a) Write short notes on the following :
5×2=10

(i) Female gametophyte of *Pinus*

(ii) Economic importance of Gymnosperms

(b) Draw and describe the salient features of *Anthoceros* sporophytes. Why is Anthocerotopsida considered as a synthetic group?
5+5=10

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