

U.G. 2nd Semester Examinations 2022

BOTANY (Honours)

Paper Code : DC-3

[CBCS]

Full Marks : 25

Time : Two Hours

The figures in the margin indicate full marks.

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

1. Answer any **five** questions of the following: 1×5=5
 - (i) What is apogamy?
 - (ii) What is a telome?
 - (iii) What is meant by index fossil?
 - (iv) Mention two primitive features of *Psilotum*.
 - (v) Where is the carinal canal formed?
 - (vi) What is the function of transfusion tissue?
 - (vii) What is the function of peristome teeth?
 - (viii) State two angiosperm characters of *Gnetum*.

2. Answer any **four** questions of the following: 3×4=12
 - (i) Describe the sporophyte of *Anthoceros*.
 - (ii) Describe the morphological and anatomical features of *Rhynia*.
 - (iii) Write a short note on the spore dispersal mechanism in *Funaria*.
 - (iv) Write a brief note on the economic importance of gymnosperms.
 - (v) Briefly discuss four different modes of preservation of plant fossils.
 - (vi) Describe the megasporophyll of *Cycas*.
 - (vii) Describe the stelar evolution in Pteridophytes.
 - (viii) Write a note on the importance of the study of fossils.

[P.T.O.]

3. Answer any **one** question of the following: 8×1=8

- (i) Write a note on the classification of Bryophytes (up to class) according to Proskauer (1957) with examples and characteristic features of each class. 8
 - (ii) Why 'Gondwanaland' is so named? How it is formed? Mention different megafloa assemblages of lower Gondwana in different series. 1+2+5=8
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