

U.G. 2nd Semester Examinations 2022

BOTANY (Honours)

Paper Code : DC-4

[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** of the following: 1×5=5
 - (i) Where reniform anthers are found?
 - (ii) What is perigynous stomata?
 - (iii) What is a foliaceous stipule? Give an example.
 - (iv) Define sapwood.
 - (v) What is a Casperian strip?
 - (vi) What is Tunica?
 - (vii) What is a foliaceous stipule? Give an example.
 - (viii) What are lodicules?

2. Answer any **four** questions of the following: 3×4=12
 - (i) Briefly describe the different types of aestivation of corolla with example.
 - (ii) Compare axile and marginal placentation, citing one example from each type.
 - (iii) Write three applications of dendrochronology.
 - (iv) Describe the morphological and anatomical adaptation of xerophytes with a suitable diagram.
 - (v) Write a short note on intrastelar secondary growth in angiosperms.
 - (vi) Give a short account of the types of Stomata (Metcalf and Chalk, 1967).
 - (vii) With a suitable example, explain the structure of Kranz Anatomy.
 - (viii) Give a short account of the “Korper-Kappe” theory.

[P.T.O.]

(2)

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

(i) Describe different types of dry dehiscent and schizocarpic fruits with examples. 4+4=8

(ii) Give an illustrated account of root-stem transition in plants with necessary diagrams. State its significance. 6+2
