

UG/2nd Sem/H/20 (CBCS)

2020

BOTANY (Honours)

Paper : BOTH - DC-4

[CBCS]

Full Marks : 25

Time : Two Hours

The figures in the margin indicate full marks.

1. Answer any *five* questions of the following : 1×5=5
 - (a) What is Interpetiolar stipule?
 - (b) Define caryopsis with example.
 - (c) What is trichome?
 - (d) What is floral formula?
 - (e) Where do you find bulliform cells?
 - (f) What is Root Stem transition?
 - (g) What is aggregate fruit?

2. Answer any *four* of the following : 3×4=12
 - (a) What is Hypanthodium inflorescence? Cite one example. 2+1
 - (b) Write a brief note on aestivation. 3
 - (c) How does syndetocheilic stomata differ from haplocheilic stomata? 3
 - (d) Distinguish between syngenesious and synandrous stamens. 3
 - (e) Define Plectostele with suitable diagram. Where do you find it? 2+1
 - (f) State the anatomical adaptations of hydrophytes. 3

3. Answer any *one* question of the following :

8×1=8

(a) What is anomalous secondary growth? With neat sketches give an illustrated account of the anomalous secondary growth found in *Bignonia*.

2+6=8

(b) With suitable diagram describe the structure of ovule. What do you mean by phyllotaxy? Give two types of modification of petiole with example.

4+2+2=8
