

2018

CBCS

3rd Semester

BOTANY

PAPER—C5T

(Honours)

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Anatomy of Angiosperms

1. Answer any five questions :

5×2

(a) What are callose and tyloses ?

(b) What are 'Bars of Sanio' ?

(Turn Over)

- (c) Distinguish between ring porous wood and diffuse porous wood.
- (d) What is called Forensic Medicine ?
- (e) What is Kranz anatomy ?
- (f) Name a plant source having commercial application of cuticular wax. Give an example of plant devoid of stomata entirely.
- (g) Define apical cell theory. Who is the proponent of this theory ?
- (h) Distinguish between fibres and sclereids.

2. Answer any *four* questions :

4×5

- (a) Distinguish between heart wood and sap wood.
- (b) Distinguish between adcrustation and incrustation.
- (c) Define Phellem and Phelloderm.
- (d) Compare xerophytes and hydrophytes on the basis of their anatomical features.

(e) Write down the different features of mechanical tissues. Mention their function. 3+2

(f) Discuss about root-apex organisation with reference to Histogen Theory and Korper-Kappe Theory. 2+3

3. Answer any *one* question : 1×10

(a) Diagrammatically discuss anomalous secondary growth found in *Aristolochia* stem. Describe briefly different types of trichomes found in epidermal tissues. (2+3)+5

(b) What is rhytidome? Give an account of root stem transition in angiosperm. Distinguish between fascicular and interfascicular cambium. 2+5+3
