

**U.G. 1st Semester Examination - 2020**

**BOTANY**

**[HONOURS]**

**Course Code : BOT-H-CC-T-02**

Full Marks : 40

Time : 2½ Hours

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

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

1. Answer any **five** of the following questions:

2×5=10

- a) What is the difference between umbel and corymb?
- b) What is ochreate stipule? Cite example.
- c) Define adelphy. Mention its types.
- d) Name one albuminous and one exalbuminous fruit.
- e) What is rhytidome?
- f) Mention two differences between leaf trace and leaf gap.
- g) What is quiescent centre?
- h) Define adcrustation?

2. Answer any **two** of the following questions:

5×2=10

- a) What is floral formula? Give example.

[Turn over]

Differentiate between on vexillary and quincuncial aestivation. 2+1+2

- b) Write down the structural composition of periderm. Illustrate the process of development of periderm. 2+3
- c) Briefly describe with illustrations different types of schizocarpic fruits. 5
- d) What is trichome? Mention the different types of trichomes with examples and sketches. 5

3. Answer any **two** of the following questions:

10×2=20

- a) What is stele? Mention its type with examples and suitable sketches. How evolution takes place in such steles? 1+4+5=10
- b) Briefly discuss the concept of primitive and advanced type of inflorescences. Write a short note on different types of placentations. 5+5=10
- c) Distinguish between tunica and corpus. Briefly define the organization of root apex in the light of Korper-Kappe theory. 4+6=10
- d) Mention the different roles of anatomy in the field of pharmacognosy. 10