

U.G. 1st Semester Examination - 2018**BOTANY
(HONOURS)****Course Code : BOTH/CC-T-II**

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.***Answer all the questions.**1. Answer any **five** of the following: 2×5=10

- a) What is orchreate stipule? In which family it is present?
- b) What is pappus? Mention its function.
- c) Define phyllode. Give example.
- d) Distinguish between siliqua and legume.
- e) Define endarch and exarch xylem.
- f) What are ray initials and fusiform initials?
- g) Distinguish between apoplast and symplast.
- h) What is quiscent centre? Mention its importance.

[Turn over]

2. Answer any **two** of the following: $5 \times 2 = 10$

- a) Briefly describe different types of placentation of angiospermic flower. 5
- b) Discuss different types of schieocarpic fruits with illustrations. 3+2
- c) Briefly describe different types of steles with suitable sketches. 5
- d) Explain Tunica-corpus theory with suitable diagram. 3+2

3. Answer any **two** of the following: $10 \times 2 = 20$

- a) Schematically represent different types of inflorescence present in Angiosperms. 10
- b) Write down different types of adhesion and cohesion of stamens with diagram and example. 4+6
- c) Distinguish between secondary and anomalous secondary growth. Describe anomalous secondary growth found in *Bignonia* and *Strychnos* with suitable diagrams. 2+(4+4)
- d) Distinguish between leaf-trace and leaf-gap with illustrations. Add a note on different types of stomata present in Angiosperms. 6+4