U.G. 1st Semester Examination - 2019

BOTANY

[HONOURS]

Course Code : BOT(H)CC-II-T

Full Marks : 40 Time : $2\frac{1}{2}$ 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 meant by decompound Leaf? Give an example.

   b) Distinguish between interpetiolar and intrapetiolar stipules.

   c) What is carcerule? Name the family where it is present.

   d) What is coma? Write its function.

   e) Define hydathode. Mention its significance.

   f) Define atactostele. Give an example.

   g) What are tylones and rhytidome?

h) Distinguish between adcrustation and incrustation.

2. Answer any **two** questions: 5×2=10

a) Define phyllotaxy. Discuss different types of phyllotaxy present in Angiosperms. 2+3=5

b) Discuss the inflorescence present in the family Asteraceae with labelled diagram. 3+2=5

c) Write a short note on different types of stomata present in Angiosperms. 5

d) Discuss briefly the scope of anatomy in forensics. 5

3. Answer any **two** questions: 10×2=20

a) Which inflorescence you consider most primitive? Justify your answer. Add a note on different types of aestivation. 1+5+4=10

b) Distinguish between multiple fruit and aggregate fruit. Discuss– different modes of wind dispersal of seeds with illustrations. 2+(4+4)

c) Differentiate between tracheid and trachea. Discuss briefly the cytodifferentiation of sieve elements with diagramme. 2+(3+5)

d) How does extrastelar secondary growth differ from intrastelar secondary growth? Discuss development and composition of extrastelar secondary growth. 2+(4+4)