

U.G. 1st Semester Examination - 2019**BOTANY****[HONOURS]****Course Code : BOT(H)CC-II-T**

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: $2 \times 5 = 10$

- a) What is meant by decompose 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 tyloes and rhytidome?

[Turn over]

h) Distinguish between adcrustation and incrustation.

2. Answer any two questions: $5 \times 2 = 10$

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: $10 \times 2 = 20$

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)
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