



K20P 1073

Reg. No. :

Name :

**III Semester M.Sc. Degree (CBSS – Reg./Suppl./Imp.) Examination,
October 2020**

(2014 Admission Onwards)

BOTANY

BOT3C09 : Plant Systematics and Morphology

Time : 3 Hours

Max. Marks : 60

SECTION – A

Answer **both** questions (Either **a** or **b**).

1. a) Write on the concepts of origin of angiosperms with special reference their ancestral stock.

OR

- b) Give an account of Bentham and Hooker's system. Add a note on major changes brought about by APG system.

2. a) Explain the origin and evolution in structure and morphology of stamens.

OR

- b) Explain with examples the use of chemical evidence in solving taxonomic problems.

(2×8=16)

SECTION – B

Answer **any two**. **1** mark for part **a**, **2** marks for part **b**, **3** marks for part **c**.

3. a) Give the specifications of a herbarium sheet.
b) Briefly explain the methods in preparing herbarium specimens.
c) Write on herbarium ethics.
4. a) What is a carpel ?
b) Write on the structural variations in carpels.
c) Explain the concept of foliar origin of carpel.

P.T.O.



5. a) Give the systematic position of Clusiaceae.
- b) Write on any two plants of economic importance in Clusiaceae.
- c) Give the diagnostic characters of Clusiaceae.

(2×6=12)

SECTION – C

Answer **any six**.

6. Lactotypification.
7. Valid publication.
8. Major herbaria.
9. Cladistics.
10. Concept of species and infraspecific categories.
11. Evolutionary trends in pollination mechanism.
12. Morphology of nectaries.
13. Podostemaceae.

(6×3=18)

SECTION – D

Answer **any seven**.

14. Tautonym.
15. Rule of priority.
16. Cladogram.
17. Threatened angiosperms.
18. Herbarium label.
19. Lentibulariaceae.
20. Inflorescence in Aroidae.
21. Pollinia.
22. Numerical taxonomy.
23. Placentation.

(7×2=14)