



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.

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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. Lactotification.
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)