

K21P 0962

Reg. No. :

Name :

**III Semester M.Sc. Degree (CBSS – Reg./Suppl./Imp.)
Examination, October 2021
(2018 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) Explain the theories on the origin of Angiosperms.

OR

b) Write on the various concepts involved in expressing the relationship between taxa.

2. a) Give an account of the methods in herbarium preparation.

(2×8=16)

OR

b) Explain how chemical evidence helps in solving taxonomic relationships.

SECTION – B

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

3. a) What is natural system of classification ?

b) Write on merits of Bentham and Hooker's system.

c) Give a broad outline of polypetalae.

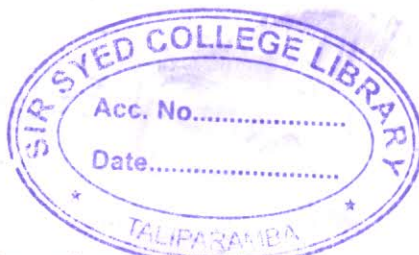
4. a) Trace the origin of stamens.

b) Give the evolutionary trends in the structure of stamens.

c) Write on the structural and functional specialities in stamens.

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5. a) Give the systematic position of geraniaceae.
- b) Write any two plants of economic importance in the family.
- c) Bring out the diagnostic characters of geraniaceae.

(2×6=12)

SECTION – C

Answer **any six** :

6. Fossil angiosperms.
7. Intraspecific categories.
8. Major herbaria of the world.
9. Threatened angiosperms.
10. Inflorescence in Aroidae.
11. Diagnostic characters of Oleaceae.
12. Evolutionary trends in pollination mechanism.
13. Habit specialisation in Podostemaceae.

(6×3=18)

SECTION – D

Answer **any seven** :

14. Synonym.
15. Lactotype.
16. Cladogram.
17. Pollinia.
18. Numerical taxonomy.
19. Morphology of nectaries.
20. Stamens in Lauraceae.
21. Nomenclatural type.
22. Bracketed key.
23. Adansonian principle.

(2×7=14)