



K22P 1369

Reg. No. :

Name :

III Semester M.Sc. Degree (CBSS – Reg./Sup./Imp.)
Examination, October 2022
(2019 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) Give an account on APG system of classification. Comment on its merits over classical systems.

OR

- b) Give an account on the current concept of the origin of Angiosperms.

2. a) Explain the salient features and major provisions of the latest international code of nomenclature.

OR

- b) Write an account on the evolution of carpels with an emphasis on its foliar origin.

(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) What is numerical taxonomy ?
b) Write a note on the Adansonian principles.
c) Explain the different numerical approaches used in taxonomy.
4. a) What is a taxon ?
b) Distinguish between the principal obligatory and secondary ranks of taxa.
c) Comment on major ranks of taxa recognized by the code.
5. a) What is a hybrid formula ?
b) Differentiate between a nothogenus and nothospecies.
c) Comment on the different rules of naming intergeneric hybrids.

(2×6=12)

P.T.O.



SECTION – C

Answer **any six**.

6. List out the diagnostic characters of Balsaminae.
7. Differentiate between a flora and a monograph.
8. Describe the inflorescence of Araceae.
9. Distinguish between Homology and Analogy.
10. List out the major roles of botanical gardens.
11. Briefly explain the coevolution of flowers vis-à-vis pollinators.
12. What is flagged hierarchy ?
13. Compare different types of classification.

(6×3=18)

SECTION – D

Answer **any seven**.

14. What are gynandrophores ?
15. List out the advanced characters of Scitamineae.
16. What is Cladistics ?
17. Comment on the importance of embryology in taxonomy.
18. What is Nomen Superfluum ?
19. What is a conduplicate carpel ?
20. Comment on biosystematics.
21. What are the different criteria for rejection of names ?
22. What is meant by effective publication ?
23. What is cytotaxonomy ?

(7×2=14)

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