



K15P 0028

Reg. No. :

Name :

Third Semester M.A./M.Sc./M.Com. Degree (Reg./Sup./Imp.)
Examination, November 2015
BOTANY (2014 Admission)
BOT 3C09 : Plant Systematics and Morphology

Time : 3 Hours

Max. Marks : 60

Instruction : Draw diagrams wherever necessary.

SECTION – A

Answer both questions. (Either a or b)

1. a) Write on the various concepts of evolutionary relationships used to establish phylogeny of taxa.

OR

- b) Give an account of current concepts of origin of Angiosperms.

2. a) Explain the methods involved in plant exploration and preparation of herbaria.

OR

- b) Trace the origin and evolution of stamens.

(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 natural system of classification ?
b) What are the merits of Bentham and Hooker's classification ?
c) Briefly give salient features of APG system.

P.T.O.

K15P 0028



4. a) What is numerical taxonomy ?
b) Explain briefly the characters used in chemotaxonomy.
c) Explain how chemical evidence helps in solving taxonomic problem with one example.
5. a) Give the systematic position of caryophyllaceae.
b) List out any four plants of economic importance in caryophyllaceae.
c) Briefly write on the taxonomic characters of caryophyllaceae. (2×6=12)

SECTION – C

Answer any six :

6. Explain the concept of foliar origin of carpels.
7. Write on co-evolution of flowers vis-a-vis pollinators.
8. What is effective and valid publication ?
9. Briefly write on typification.
10. Describe the characters of Melastomaceae.
11. Describe the inflorescence in Aroidae.
12. Importance of botanical gardens.
13. What do you mean by threatened angiosperms ? (6×3=18)

SECTION – D

Answer any seven :

14. Write on author citation.
15. What is a conduplicate carpel ?
16. What are the anatomical characters useful in taxonomy ?
17. What is a corona ?
18. Write on names of hybrids.
19. What is a fossil ?
20. Write on fruits of impatiens.
21. What is Adansonian principle ?
22. Mention four plants of economic importance in Lauraceae.
23. What is nomina conservanda ? (7×2=14)