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Roll No.

MSCBOT-504

Taxonomy of Flowering Plants (Angiosperms)

M.Sc. Botany (MSCBOT)

1st Semester Examination, 2023 (June)

Time : 2 Hours]

Max. Marks : 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. Candidates should limit their answer to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

SECTION–A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

- 1.** Give a broad outline of Bentham and Hooker system of classification.

2. Describe salient features of family Apiaceae (Umbelliferae) in semi-technical language and economic importance of the family.
3. Explain Numerical taxonomy in detail.
4. Write detailed notes on :
 - (a) Endemism.
 - (b) Modern trends in taxonomy.
5. What are the aims and principles of ICBN? Discuss in detail.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. Discuss embryological evidences in relation to taxonomy.
2. Write descriptive note on economic importance of family Poaceae.
3. Write botanical name, family and economic importance of :-
 - (a) Sun flower.
 - (b) Lotus.
 - (c) Coconut.
 - (d) Areca nut.

4. Write a short note on Herbarium and significance of herbarium preparation.
 5. Write notes on :
 - (a) Taxonomic Keys.
 - (b) Taxonomic Hierarchy.
 6. What are serological reactions and their use in taxonomy?
 7. What are hotspots? Mention criteria used for determining hotspots.
 8. Describe the following :
 - (a) Botanical gardens.
 - (b) Herbaria.
 - (c) Cyathium
 - (d) Spikelet.
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