S-50

Total Pages : 3 Roll No. .....

MSCBOT-504

Taxonomy of Flowering Plants (Angiosperms)

M.Sc. Botany (MSCBOT)

1st Semester Examination, 2022 (Dec.)

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.

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 an outline of Cronquist system of classification. Discuss merits and demerits.

2. Give an account of International Code of Botanical Nomenclature.

3. What is type specimen and describe different type of type specimens and their significance.

4. What do you understand by chemotaxonomy? Give an account on phytochemicals used in chemotaxonomy.

5. What do you understand by phytogeography and give an account of phytogeographical regions of India?

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. Citing with suitable examples explain about biodiversity hotspots?

2. Give an account of Taxonomic tools used in plant Taxonomy.

3. Write notes on following:

(a) BSI.

(b) Placentation.

(c) Floral formula.

(d) Hypanthodium inflorescence.

4. Give an account on characteristic features of the family Lamiaceae along with floral diagrams and floral formula.

5. Write short notes on following :

(a) Economic importance of Solanaceae family.

(b) Operational Taxonomic Unit (OTU).

6. Discuss about salient features of Melbourne code 2011.

7. Describe merits and demerits of Bentham and Hooker system of classification.

8. Differentiate between natural and phylogenetic system of classification.