QJ-5751

M. Sc. (Sem. III) Examination, December, 2023

BOTANY

PAPER - XIII

TAXONOMY OF ANGIOSPERMS

Time Allowed : **Three Hours**

Maximum Marks : **70**

Minimum Marks : **28**

Note : *This question paper will be divided into three sections as under :*

SECTION - A **Max. Marks 10**

Will carry 10 marks with 01 compulsory question comprising 10 short answer type questions (maximum 20 words answer) taking two questions from each unit. Each question shall be of one mark.

SECTION - B **Max. Marks 25**

Will carry 25 marks with equally divided into five long answer type questions (answer about in 250 words). Students are instructed to attempt five questions by selecting one question from each unit.

SECTION - C **Max. Marks 35**

Will carry 35 marks with five long answer type question comprising one compulsory question (question no. 07) of 15 marks and four questions of 10 marks each. Students are instructed to attempt total three questions with one compulsory question (answer about in 500 words) and any two more questions (answer about in 400 words) out of remaining four questions.

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SECTION - A

Attempt all questions :

(i) Aims of Taxonomy

(ii) Phylogenetic system of classification.

(iii) Holotype

(iv) Rank of taxa

(v) Herbarium

(vi) Flora

(vii) Pappus

(viii) Systematic position of family sterculiaceae

(ix) Name of some genera of primitive angiosperm.

(x) Name of primitive families of angiosperm.

$10 \times 1 = 10$

SECTION - B

UNIT - I

2 Describe Laxonomic keys. 5

OR

Write merit and demerit of Engler and Prantal system of classification.

UNIT - II

3 Describe taxonomic hierarchy.

OR

Write short notes on the concept of species.

UNIT - III

4 Write a note on role of palynology in plant taxonomy.

OR

Brielfy explain the significance of embryology in relation to plant taxonomy.

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UNIT - IV

5 Write a explanatory note on floral diversity of family cucurbitaceae. 5

OR

Describe the systematic position and distinguishing characters of family Rubiaceae.

UNIT - V

6 Give brief note on habit of Angiosperm. 5

OR

Write a note on time and place of origin of Angiosperm.

SECTION - C

7 Give salient features of classification given by Bentham and Hooker and discuss its merits and demerits. 10+5=15

8 Briefly explain the salient features of the International Cdoe of Botanical Nomenclature. 10

9 Discuss the role of Cytology in plant taxonomy. 10

10 Describe the floral diversity of family Asteraceae with suitable diagrams. 10

11 Write a detailed note on ancestors of Angiosperms.

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