

Roll No.

Total Pages : 03

GSM/J-21

1627

BOTANY

Paper I

Biology and Diversity of Seed Plants-II

Time : Three Hours]

[Maximum Marks : 40

Note : Attempt *Five* questions in all, selecting *two* questions from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

1. (a) What is Syncarpous Ovary ?
- (b) What is Alpha Taxonomy ?
- (c) What is an herbarium ?
- (d) What are Flavonoids ?
- (e) Name the Indian Scholar and the book in which he classified the plants of medicinal importance in 1st Century A.D.
- (f) What is infundibuliform of Corolla ?
- (g) Define a Taxon.
- (h) Where is the Central National Herbarium situated ?

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1

Unit I

2. Define taximetrics and explain the principles, merits and demerits of it. **8**

3. (a) Explain the various Rules of Nomenclature. **4**
(b) Role of Cytology in relation to taxonomy. **4**

4. Writ notes on the following :
 - (a) Special types of Inflorescence **5**
 - (b) Diplostamenous Condition. **3**

5. Briefly explain the following :
 - (a) Concept of Species **4**
 - (b) Principle of Priority. **4**

Unit II

6. Explain Engler and Prantl's system of classification of Plants. Also discuss its merits and demerits. **8**

7. (a) Give the floral description, floral formula, floral diagram of sunflower. **4**
(b) Economic importance of the family Poaceae. **4**

8. Write notes on the following :
- (a) Diagnostic features and economic importance of family Malvaceae. 5
 - (b) Corolla of family Leguminosae. 3
9. Give the botanical name, floral formula and floral diagram of :
- (a) Madar/AK 4
 - (b) Arind/Castor. 4