Roll No.

Total Pages : 3

GSM/M-20

1625

BOTANY

(Biology and Diversity of Seed Plants-II)

Paper-I

Time Allowed : 3 Hours] [Maximum Marks : 40

Note : Attempt five questions in all, selecting at leastone question from each Unit. Question No. 1 iscompulsory. All questions carry equal marks.

Compulsory Question

- 1. (a) What is Taximetrics ?
 - (b) Define the Neosystematics.
 - (c) Define the Karyotype.
 - (d) Define the Placentation.
 - (e) What is Spadix inflorescence ?
 - (f) Name the Russian Botanist who proposed a phylogenetic system of classification in 1954.
 - (g) Define the Beta-taxonomy.
 - (h) What is the difference between an Isotype and Topotype ?
 8×1=8

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P. T. O.

UNIT-I

2.	Give the important rules for Plant Nomenclature and their Significance. 8							
3.	(a) Role of Cytology in relation to taxonomy. 4							
	(b) Write notes on Indented and Bracketed key. 2,2							
UNIT-II								
4.	Write notes on the following :							
	(a) Verticillaster							
	(b) Capitulum							
	(c) Cyathium							
	(d) Corymb. 2×4=8							
5.	Write notes on the following :							
	(a) Principle of Priority. 4							
	(b) Concept of Species. 4							

UNIT-III

6.	(a)	Describe	the	different	forms	of	Polypetalous
		Corolla.					4
	(b)	Spikelet	of W	heat.			4
1.00				2			

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- 7. (a) Write the diagnostic features of the family Brassicaceae and its economic importance.
 - (b) Give the floral formula and floral diagram of any member of this family. 3,2,3

UNIT-IV

- 8. (a) Give the merits and demerits of Benthan and Hooker's system of classification of Angiosperms.
 - (b) Briefly explain the economic importance of Apiaceae.3
- 9. Write the botanical name, floral formula and floral diagram of :
 - (a) Shoeflower. 4
 - (b) Larkspur. 4