Roll No.

(09/20-I)

5224

B. Sc. EXAMINATION

(For Re-appear Candidates Only)

(Fourth Semester)

BOTANY

First Paper

Biology and Diversity of Seed Plants-II

Time: Three Hours Maximum Marks: 40

Note: Q. No. 1 is compulsory. Attempt *Four* others selecting *two* questions from each Unit. All questions carry equal marks.

- 1. Explain the following:
 - (a) Father of taxonomy
 - (b) Alpha phase (α)
 - (c) Name two Herbaria
 - (d) ICBN

(g)	Epipetalous
(h)	Catkin. 1×8=8
	Unit I
(a)	Define and describe the keys to identification in plants in detail.
(b)	Describe Binomial nomenclature. 6+2=8
Des	at is Botanical garden? Give its importance. cribe about some botanical gardens in India abroad. 1+2+5=8
Wha	at is Taximetrics? Describe its role in
taxo	onomy along with its advantages and
disa	dvantages. 2+6=8
Exp	lain the following: $2\times4=8$
(a)	Capitulum
(b)	Verticillaster
(c)	Parietal placentation
(d)	Spadix.

(e) Placentation

2.

3.

4.

5.

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Involucre

Unit II

- Describe the classification proposed by Engler and Prantl along with its merits and demerits.
- 7. Describe the following: 4+4=8
 - (a) Floral formulae and Floral diagrams of Delphinium ajacis.
 - (b) Diagnostic features and economic importance of family Brassicaceae.
- 8. Write notes on the following: 4+4=8
 - (a) Androecium in Calotropis
 - (b) Inflorescence in Umbelliferae.
- Give diagnostic features and economic importance of family Poaceae.
 4+4=8

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3

120