Roll No.

(01/22-II)

5204

B. Sc. EXAMINATION

(Third Semester)

BOTANY

Paper-I

Biology and Diversity of Seed Plants-I

Time: Three Hours Maximum Marks: 40

Note: Attempt Five questions in all, selecting two questions from each Unit. Q. No. 1 is compulsory and has short answer type questions. All questions carry equal marks.

- 1. Define the following terms:
- $1 \times 8 = 8$

- (a) Pycnoxylic wood
- (b) Incrustation or Cast
- (c) Gametophyte
- (d) Homosporous

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Era (e) (f) Zoodiogamy (g) Polyembryony Microsporophyll. (h) Unit I Describe general characters of Gymnosperms. How do they differ from Angiosperms? 3. Write notes on the following: (a) Theories of Fossilization Mummified Fossils. (b) Unit II Write notes on the following: (a) Reproductive features of Cycadeoidea 4 (b) Evolution of seed habit. systematic position, external 5. Give reproductive characters of Williamsonia. Give diagrams also.

Unit III

6.	Draw labelled diagrams of the following:	
	(a) T.S. Needle of Pinus.	4
	(b) T.S. Coralloid root of Cycas.	4
7.	Write notes on the following:	
	(a) Female Cone of Pinus	4
	(b) Megasporophyll of Cycas.	4

Unit IV

- 8. Describe structure and development of male and female gametophyte in Ephedra. Give well labelled diagrams also.
- 9. Describe general characters of the following primitive group of Angiosperms in brief:
 - (a) Renales

(b) Magnoliales.

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