Roll No.

(09/20-I)

5225

B. Sc. EXAMINATION

(For Re-appear Candidates Only)

(Fourth Semester)

BOTANY

Second Paper

Plant Embryology

Time: Three Hours Maximum Marks: 40

Note: Attempt Five questions in all, selecting two questions from each Unit. Q. No. 1 is compulsory (Short answer type). All questions carry equal marks. Draw well labelled diagram wherever required.

- 1. Define or expand the following terms:
 - (a) Geitonogamy

P.T.O.

	(b)	Coleorhiza	5.	Write notes on the following: $2\times4=8$
	(c)	Callose		(a) Pollinium
	(d)	Scutellum		(b) Cleistogamy
	(e)	Cremocarp		(c) Porogamy
	(f)	Tenuinucellate ovule		(d) Simultaneous type of microsporogenesis.
	(g)	Herkogamy		Unit II
	(h)	Albuminous seeds with example. $1\times8=8$	6.	Describe the development of a typical
	Unit I		Polygonum type of Embryo sac. Describe the function of each nucleus.	
2.		Write short notes on the following: 2+3+3=8	7.	7. Write notes on the following: 2+3+3=8
	(a)	Endothecium		(a) Hypostase and Epistase
	(b)	Tapetum		(b) Endosperms and Embryo relationship
	(c)	Structure of Microspore		(c) Cellular Type of Endosperm.
3.	Write notes on the following: 4+4=8		8.	(a) Describe development of a typical dicot
	(a)	Self-Incompatibility		embryo. 4
	(b)	Pollination in Salvia.		(b) Write a note on simple dry fruits. 4
4.	Describe the development of male gametophyte in angiosperms.		9.	Define Polyembryony. Describe various types
				of Polyembryony in angiosperms.

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