(i) Printed Pages: 3 Roll No							
(ii) Questions :9 Sub. Code: 0 2 5 4							
Exam. Code: 0 0 0 3							
B.A./B.Sc. (General) 3rd Semester							
(2122)							
BOTANY							
Paper: B (Structure Development & Reproduction in Flowering Plants-I)							
Time Allowed: Three Hours] [Maximum Marks: 36							
Note: — Question No. 1 compulsory. Attempt ONE question from							
each Section. Attempt only FIVE questions in total. 1. (A) Fill in the blanks:							
(a) The biennial plants complete their life cycle in							
(b) Photosynthetic roots are found in							
(c) The tissues found in leaf mesophyll are							
(d) Porogamy means							
(B) Mark the correct answer:							
(e) The milky water of green coconut is an example of:							
(i) nucellus (ii) female gametophyte							
(iii) endosperm (iv) embryo							
254/PR-18454							

	(f)	Anti	podals are not	found	in:			
		(i)	Allium type		(ii)	Oenothera ty	pe	
		(iii)	Drusa type		(iv)	Pepromia ty	pe	
	(g)	What is true for a pollen tube:						
		(i)	exhibits chem	otaxis	(ii)	callose form	ation	
		(iii)	apical growth	BOT	(iv)	All of the al	oove	
	(h)	Cla	dodes are foun	d in:				
		(i)	Ruscus		(ii)	Opuntia		
	- Vale M	(iii)	Australian Ac	cacia	(iv)	None of the	above $8 \times 1 = 8$	
			SECTI	ON—I				
2.	Describe various morphological and anatomical modifications of respiratory roots.							
3.	Discuss with the help of suitable diagrams, the various types of adventitious roots.							
			SECTI	ON—I	I			
4.	Describe the various types of weak stems with tendrils. 7							
5.	Differentiate between the following:							
	(a) Sin	mple	and compound	d leaf				
	(b) Aerial and underground stem							
	(c) Reticulate and Parallel venation. 2+3+2							

SECTION-III

- 6. Describe the structure of a young anther with the help of diagrams.
- 7. Explain the development of Embryo sac in angiosperms. 7

SECTION—IV

- 8. Write short notes on:
 - (a) Monosporic type of embryo sac
 - (b) Triple fusion
 - (c) Double fertilisation.

3+2+2

9. Describe the structure of a typical ovule. Also write about the various forms of ovule.