(i) Printed Pages: 3 Roll No.

(ii) Questions :9 Sub. Code: 0 3 5 4

Exam. Code: 0 0 0 4

B.A./B.Sc. (General) 4th Semester

(2053)

BOTANY

Paper: B Structure Development and Reproduction in Flowering Plants-II

Time Allowed: Three Hours] [Maximum Marks: 36

- Note:— Attempt five questions in all. Question No. 1 is compulsory. Attempt four more questions selecting one from each Unit. Draw well labeled diagrams wherever necessary.
- 1. (A) Multiple choice questions:
 - (i) The monocot stem is characterized by:
 - (a) Lysigenous cavity
 - (b) Closed vascular bundles
 - (c) Both (a) and (b)
 - (d) Phloem parenchyma
 - (ii) Vegetative propagation is the only method of reproduction in plants with:
 - (a) Good seed viability
 - (b) Increased seed production capacity
 - (c) Both (a) and (b)
 - (d) None of these

	(iii)	Ane	emophily is promoted by _		mechanism.		
		(a)	Budding	(b)	Barrier		
		(c)	Gun-powder	(d)	Pollenkitt		
	(iv)	A fruit derived from ovary and accessory floral parts is called:					
		(a)	Simple fruit	(b)	False fruit		
		(c)	Legume	(d)	Lomentum		
	(v)	V-shaped primary xylem and without lysigenous water cavities is feature of:					
7		(a)	Nyctanthes	(b)	Mirabilis		
		(c)	Dracaena	(d)	Boerhaavia		
	(vi)	Pollination by birds is known as:					
		(a)	Chiropterophily	(b)	Ornithophily		
		(c)	Entomophily	(d)	Anemophily		
(B)	Fill in the blanks:						
	(i)	Root hairs occur in the zone of					
	(ii)	Vascular bundles are scattered in					
	(iii)	Pollenkitt is secreted in flowers.					
	(iv)		afting is done between otyledonous plants having		•		

4	(v)	Bisexual flowers of Salvia are	
	(vi)	Food laden tissue formed during the development angiospermous seed is 1×1	ent of 2=12
		UNIT—I	
2.		neristematic tissue. Give a summarized account of its various classifications.	types 6
3.	Discuss	the secondary growth in dicot stem with diagrams	. 6
		UNIT—II	
4.	Explain	the anomalous secondary growth in Boerhaavia.	6
5.		fine vegetative propagation. Discuss the natural me vegetative propagation in underground stems.	thods
	(b) Exp	plain Plant Tissue Culture.	3+3
		UNIT—III	
6.	(a) Giv	ve a brief account of self-pollination.	
	(b) Wh	nat are the characteristics of Ornithophilous plant	s ? 3+3
7.	Discuss	the abiotic agencies responsible for cross pollination	n. 6
		UNIT—IV	
8.	Discuss	the development of embryo in dicot plants.	6
9.	Discuss	Zoochory as one of the seed dispersal strategies.	6