(i) Printed Pages : 2

Roll No.

(ii) Questions :9

 Sub. Code :
 0
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 Exam. Code :
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B.A./B.Sc. (General) 3rd Semester (1129) BOTANY

Paper —(B: Structure Development & Reproduction in Flowering Plants–I)

Time Allowed : Three Hours] Note :— Q.No. 1 is compulsory. A						
1.	(a)	each section. Attempt only FIVE questions in total. Permanently growing plants are known as Pneumatophores are roots.				
	(b)					
	(c)	Anther, connective and filaments are parts of				
	(d)	Pollen tube develops partitions called plugs.				
	(e)	Sec	Secondary nucleus in Polygonum is :			
		(i)	2n	(ii)	4n	
		(iii)	6n	(iv)	8n	
	(f)	Elev	ven antipodals are four	nd in :		
		(i)	Oenothera type			
		(ii)	Penaea type			
		(iii)	Drusa type			
		(iv)	Adoxa type			
		ofer	mbryo sac.			

1

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[Turn over

- (g) Pollens are released at :
 - (i) 2 celled stage
- (ii) 3-celled stage
- (iii) Both (i) and (ii) (iv) None
- (h) Cells formed as a result of double fertilisation are :
 - (i) Zygote
 - (ii) Primary Endosperm Cell
 - (iii) Both (i) and (ii)
 - (iv) None

8×1=8

7

7

7

SECTION-I

- 2. Describe with the help of suitable diagrams the Structural and Anatomical modifications of reproductive roots. 7
- 3. Describe the various types of Adventitious roots.

SECTION-II

- 4. Explain the various modifications of underground stems
- 5. Give the detailed anatomy of a typical monocot leaf. Discuss its advantages over dicot leaf. 7

SECTION-III

- 6. Give evidences to show that flower is a modified shoot. 7
- 7. Explain with illustrations the development of female gametophyte.

SECTION-IV

- 8. What is double fertilisation ? Give its significance. 7
- With the help of diagrams give an account of various Tetrasporic Embryo-Sacs.
 7