

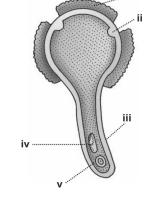
CHAPTER 4 - POLLINATION AND FERTILIZATION

A. Choose the correct option.

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1.	Pollination by wind is known as									
	a. anemophily. b.	. hydrophily.	c. entomophi	ly.	d.	ornithophily.				
2.	Maturing of anther earlier than stigma is called									
	a. dichogamy. b.	. protogyny.	c. protandry.		d.	autogamy.				
3.	Transfer of pollen grains from the anther to the stigma of another flower of the same plant is called									
	a. geitonogamy. b.	. karyogamy.	c. autogamy.		d.	xenogamy.				
4.	Wind pollination is commo	n in								
	a. grasses. b.	. orchids.	c. legumes.		d.	lilies.				
5.	Pollination in Vallisneria occurs through									
	a. wind. b.	. water.	c. insects.		d.	birds.				
В.	Fill in the blanks.									
1.	. The nucleus of the pollen grain divides to form two male gametes.									
2.	provides nourishment to the developing embryo.									
3.	Pollination by elephant is found in									
4.	In, stigma matures earlier than the anther.									
5.	and are adaptations of flower for self-pollination.									
C.	C. Match the items in Column A with those in Column B and write down the matching pairs.									
	Column A			Column B						
1.	Different timing for matura	tion of androecium and	a. anemophily							
2.	Flower with different length of style and position of anther				o. hydrophily					
3.	Light, dry pollen and feathery stigma				c. heterostyly					
4.	Vallisneria			d. ornit	ornithophily					
5.	Begonia			e. dicho	dichogamy					
D.	State whether the following	ng statements are Tru	ie or False.							
1.	. After fertilization, ovule changes to fruit.									
2.	. Canna is a wind pollinated flower.									
3.	. Cross-pollination preserves the parental characters.									
4.	. Pollination is the fusion of male and female gametes.									
5.	5. Maize is pollinated by wind.									
Nan	ne:			Teache	er's si	gnature:				
Clas	IX					Deter				



- E. Study the diagrammatic sketch of the sectional view of a plant part relating to reproduction and
 - answer the following questions.
- 1. Identify the plant part.
- 2. Label the parts i v.
- 3. Where would this stage be found?
- 4. What is the function of part **v**?
- 5. What happens
 - a. to the part labelled iv during the process?
 - b. when part iii reaches the embryo sac?



ANSWERS

WORKSHEET 1

A.	Choose the correct option.										
1.	a.	2. c.	3. a.	4. a.	5. b.						
В.	Fill in the blanks.										
1.	generative										
2.	Endosperm										
3.	Rafflesia										
4.	protogyny										
5.	Homogamy and cleistogamy										
C.	Match the items in Column A with those in Column B and write down the matching pairs.										
1.	e.	2. c.	3. a.	4. b.	5. d.						
D.	State whether the following statements are True or False.										
1.	False	2. False	3. False	4. False	5. True						
E.	Study the diagrammatic sketch of the sectional view of a plant part relating to reproduction and										
	answer the following questions.										
1.	Pollen grain germinating on stigma										
2.	i. Exine										
	ii. Intine										
	iii. Pollen tube										
	iv. Generative nucleus										
	v. Tube nucleus										
3.	This stage would be found on stigma after pollination.										
4.	Tube nucleus directs the growth of the pollen tube.										
5.	a. Part iv that is generative nucleus divides to form two male gametes.										

