## Q.P. Code:10382

[ Marks:60]

<ol> <li>Figures to the right indicate full marks.</li> <li>Draw neat and labeled diagrams wherever necessary.</li> </ol>	
Define meristem. Describe tunica corpus theory in detail.  OR	12
With reference to sensory tissue system explain optical sense organs.	12
Explain morphogenesis and organogenesis of leaf in plants. Add a note on phyllotaxy.  OR	12
What are floral meristems? Describe the floral development in <i>Arabidopsis</i> .	12
Write an account on pollen tube growth. Trace the path of pollen tube through pistil and add a note on its guidance	12
Write an essay on vectors involved in pollination.	12
Describe pollen proteins? Explain how they act as human allergens.  OR	12
Give an account of ultra structural development of pollen wall.	12
Write short notes on <b>any three</b> of the following: Histogen cell theory Transition of flowering Tactile sense organs Structure of embryo sac Embryo culture Pollen tetrad.	
	3. Draw neat and labeled diagrams wherever necessary.  Define meristem. Describe tunica corpus theory in detail.  OR  With reference to sensory tissue system explain optical sense organs.  Explain morphogenesis and organogenesis of leaf in plants. Add a note on phyllotaxy.  OR  What are floral meristems? Describe the floral development in Arabidopsis.  Write an account on pollen tube growth. Trace the path of pollen tube through pistil and add a note on its guidance  OR  Write an essay on vectors involved in pollination.  Describe pollen proteins? Explain how they act as human allergens.  OR  Give an account of ultra structural development of pollen wall.  Write short notes on any three of the following: Histogen cell theory Transition of flowering Tactile sense organs Structure of embryo sac Embryo culture

[Time: 2½ Hours]

1. All questions are compulsory

N.B:

Please check whether you have got the right question paper.