QP Code: 79577

		(2½ Hours) [Total Marks:	: 75
N	(2)	All questions are compulsory. All questions carry equal marks. Draw neat and labeled diagrams wherever necessary.	
1.	(a) (b)	any two of the following: Give the systemetic position of <i>Ephedra</i> . Describe the T.S. of stem of <i>Ephedra</i> . Describe the structure of male cone of <i>Ephedra</i> . Add a note on structure of microsporangium and microspore. Describe the female cone of <i>Gnetum</i> . Add a note on V.S. of ovule of <i>Gnetum</i> . With the help of labelled diagram describe the secondary growth in <i>Gnetum</i> stem.	15
2.	. (a)	any two of the following: Give the systematic position, distinguishing characters, floral formula and plants of economic importance of family Capparidaceae. Write the morphological peculiarities and systematic position of family Palmae. Discuss the importance of Anatomy in relation to taxonomy. Give an outline of Bentham and Hooker's system of classification of angiosperms upto orders.	15
3.	(a)	tany two of the following: Explain microsporangium and trace the development of male gametophyte. What is tapetum? Describe the role of tapetum in microsporogenesis. What is megasporangium? Trace the process of megasporogenesis. Give an account of development of Capsella type of embryo.	15
4.	(a)	t any two of the following: Describe anomalous secondary growth in stem of Bignonia.	15
	(b) (d)	Describe anomalous secondary growth in root of Beet. What is anomalous secondary growth. Describe anomalous secondary growth in <i>Dracaena</i> . What is stomata? Describe Paracytic and Anisocytic type of stomata.	
5.	(a) (b) (c) (d) (e)	Give Economic importance of Cucurbitaceae. Describe Double fertilization. Describe graminaceous and anomocytic stomata.	15
	(f)	Describe anomalous secondary growth in Salvadora stem.	