Paper / Subject Code: 24178 / Botany : Paper II - Plant Diversity- IV.(OLd)

Tin	$me-2\frac{1}{2}$ Marks - 5	75
	N.B. 1. All questions are compulsory.2. Draw neat labelled diagrams wherever necessary.	30
	3. All questions carry equal marks.	3
Q.1		15
a	Give a detailed account on anatomical structure of young stem of <i>Gnetum</i> .	20
b	Explain morphological structure of <i>Ephedra</i> . Add a note on T.S. of leaf of <i>Ephedra</i>	
c	Discuss in detail male cone and male flower of <i>Gnetum</i> .	
d	Describe in detail female stobilus of <i>Ephedra</i> .	
Q.2 a b c d	Attempt any two Give classification, distinguishing characters and floral formula of family <i>Umbelliferae</i> . Discuss classification, distinguishing characters and two plants of economic important of family <i>Capparidaceae</i> . Describe various palynological characters in relation to taxonomy. Discuss in detail Hutchinson's system of classification.	15
Q.3 a	Attempt any two Describe the structure & development of microsporangium.	15
b	Explain double fertilization and its significance.	
c	Give an account of stages in development of Capsella type of embryo.	
d	Describe the structure of megasporangium and explain the process of megasporogenesis in angiosperms.	
Q.4 a b c d Q.5 a b c d f	Describe in detail anomalous secondary growth in <i>Dracaena</i> stem. Give a brief account of anomalous secondary growth in Radish root. Explain anomalous secondary growth in <i>Achyranthes</i> stem. What is stomata? Discuss in detail anisocytic, paracytic and diacytic type of stomata.	15
	~	

Page **1** of **1**