[Marks:75]

		[Time: 2 ¹ / ₂ Hours] [Ma	rks:7
		Please check whether you have got the right question paper. N.B: 1. All questions are compulsory. 2. Draw neat labelled diagrams wherever necessary. 3. All questions carry equal marks.	
1		Attempt <u>any two</u> :	15
		Describe in detail the T.S. of young stem of <i>Ephedra</i> .	
	-	Give a brief account of female cone of <i>Gnetum</i> . Add a note on its ovule.	
	c)	Discuss in detail morphology and distribution of <i>Ephedra</i> . Add a note on its systematic position.	
	d)	Describe the T.S. of leaf of <i>Gnetum</i> . Add a note on its systematic position.	
2		Attempt <u>any two</u> :	15
	a)	Give the classification, distinguishing characters and floral formula of family Labiatae.	
		Explain the Hutchinson's system of Classification.	
	c)	Describe the morphological peculiarities, systematic position and economic importance of an two plant of family Cannaceae.	У
	d)	Discuss the role of monographs and journals as taxonomic literature.	
3		Attempt <u>any two</u> :	15
	a)	Give a brief account of rooted and floating hydrophytes. Add a note on their anatomical adaptations.	
	b)	What are mesophytes? Explain their ecological adaptations with suitable examples.	
		Describe the morphological and anatomical adaptation of halophytes with suitable examples.	
	d)	Discuss in detail various ecological adaptations of xerophytes.	
4		Attempt <u>any two</u> :	15
	a)	Discuss the structure of megasporangium and explain the process of megasporogenesis in	
	ل	angiosperms.	
		What is double fertilization? Explain its process and significance. With suitable diagrams explain any three types of ovules studied by you.	
		Give a brief account of development of embryo in <i>Capsella</i> .	
5		Attempt <u>any three</u> :	15
	a)	T.S. of leaf of <i>Ephedra</i>	
	b)	Economic importance of Asclepiadaceae	
	c)	Cyathium inflorescence	
	d)	T.S. of <i>Typha</i> leaf	
	e) f)	Ecological adaptations in Epiphytes Tapetum	
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