2022

BOTANY — **HONOURS**

Paper: CC-6

Full Marks: 50

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

1.	Ans	Answer the following questions:		
	(a)	Give an example of a gamopetalous irregular flower.	1	
	(b)	Distinguish between syngenesious and synandrous stamens.	2	
	(c)	Mention the difference between axile and free central placentation with diagrams.	1+1	
	(d)	What is syconus?	1	
	(e)	What is tapetum?	1	
	(f)	Why is double fertilization so called?	2	
	(g)	What is cleavage polyembryony?	1	
2.	Ans	wer any two from the following:	-	
	(a)	What is an actinomorphic flower? Draw and describe different types of polypetalous corolla.	forms of 1+4	
	(b)	With suitable illustrations describe different types of aestivation in angiosperms.	5	
	(c)	Mention the difference between campanulate and infundibuliform forms of corolla. Give one of each of these corolla forms. What are composite fruits?	example 2+2+1	
	(d)	Discuss in brief the 'ABC Model' of flowering. What is florigen?	4+1	
3.	Answer any three from the following:			
	(a)	What do you mean by special cymose inflorescence? With suitable illustrations distinguis hypanthodium, cyathium and verticillaster inflorescence types.	h among 1+(3+6)	
	(b)	Draw and describe different types of fleshy indehiscent fruits with suitable examples.	3+7	
	(c)	What is megasporogenesis? Describe different types of megagametogenesis with suitable illu and examples.	strations 1+(6+3)	
	(d)	Comment on the endosperm development types in angiosperms with suitable illustrative examples. What is nucellus?	ons and (6+3)+1	
	(e)	Differentiate between vegetative reproduction and agamospermy. Describe different tapomixis in angiosperms. Give example of an apomictic plant species.	ypes of 2+7+1	