M.Sc.(Botany) CBCS Pattern Semester-IV **PSCBOTT15.1 - (DSE-II) - Paper-XV : Reproductive Biology of Angiosperm-II**

P. Pages:			GUG/W/23/11358 Max. Marks : 80
Notes	s: 1. 2.	All questions are compulsory and carry equal marks. Illustrate your answer with suitable examples and diagram.	
1.	Define endos	e endosperm and describe different types of endosperm and note on foo perm.	od reserve in 16
		OR	
		on: Double fertilization and triple fusion. n-Vitro fertilization.	8
2.	What	is polyembryony? Describe its induction and practical importance.	16
2.	vv mac	OR	10
	White		
	Write a) U	on: Ultrastructure of suspensor with its physiology.	8
	b) E	Embryo-endosperm relation.	8
3.		are the nutritional aspects of embryo culture with respect to morphologological considerations.	gical and 16
		OR	
	Write		
		Anther and pollen culture.	8
	b) S	Somatic embryogenesis.	8
4.	Descri	ibe isolation of protoplast and its culture methods.	16
		OR	
	Write	on:	
	a) P	Production of cybrids and hybrids.	8
	b) E	Biotransformation and Bioreactors.	8
5.	Write short notes on:		
	a) E	Endosperm mutants.	4
	b) R	Rest period in zygote.	4
	c) A	Apospory.	4
	d) C	Cell culture.	4
