M.Sc.(Botany) (New CBCS Pattern) Semester - III **PSDBOTT11-1 - Paper-XI : Reproductive Biology of Angiosperm-I**

	ages : 1 e : Three I	Hours $* 1 4 2 1 *$	GUG/S/23/11244 Max. Marks : 80
	Notes :	 All questions are compulsory and carry equal marks. Draw well labelled diagrams wherever it is necessary. 	
1.	De	efine microsporogenesis. Describe it in details. OR	16
	Write on:		
	a)	Molecular biology of Meiosis.	8
	b)	Pollen wall protein and its significance.	8
2.	Gi	ve an illustrated account of the development of male gametophyte in An	igiosperms. 16
	W	OR rite on:	
	a)	Pollen abortion and male sterility.	8
	b)	Physiological and biochemical aspects of pollen.	8
3.	De	escribe monosporic, bisporic and tetrasporic types of embryo sac.	16
		OR	
	W	rite on:	
	a)	Carpel determination.	8
	b)	Role of Antipodal and central cell.	8
4.	W	hat is pollination? Describe its mechanism with floral attractants and rev	vards. 16
		OR	
	W	rite on:	
	a)	Self incompatibility and its methods.	8
	b)	Parasexual hybridization.	8
5.	Write short notes on:		
	a)	Role of tapetum.	4
	b)	Gametocides	4
	c)	Nutrition of embryo sac.	4
	d)	Pollen hydration and its germination.	4