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

P. Pages : Time : Thr			
Note	1	e compulsory and carry equal marks. led diagrams wherever necessary.	
1.	Describe in detail structu	re of mature anther. Write about anthe	r wall, and its functions. 16
		OR	
	<ul><li>Write notes on:</li><li>a) Pollen tetrad develo</li><li>b) Pollen wall proteins</li></ul>		8 8
2.	Describe briefly the deve biochemical aspects of p	elopment of male gametophyte. Add a sollen.	note on physiological and 16
		OR	
	<ul><li>Write notes on:</li><li>a) Structural, develop</li><li>b) Causes for loss of v</li></ul>	mental and functional aspects of male s iability.	sterility. 8 8
3.	Explain types of embryo	sac. Add a note on nutrition of embryo	o sac. 16
		OR	
	<ul><li>Write notes on:</li><li>a) Ovule and its struct</li><li>b) Ultrastructure of sy</li></ul>	ural details. nergid, role of central cell and antipoda	8 al cell. 8
4.	Define self-incompatibil	ity. Describe different types and mecha	anism. 16
		OR	
	<ul><li>Write notes on:</li><li>a) Pollination related f</li><li>b) Pollen pistil interact</li></ul>	floral attractants and Rewards. tion.	8 8
5.	<ul> <li>Write short notes on:</li> <li>a) Microsporogenesis.</li> <li>b) Gametocides.</li> <li>c) Carpel determination</li> <li>d) Dellan ellelegethere</li> </ul>		4 4 4
	d) Pollen allelopathy.		4
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