M.Sc. F.Y. (Zoology) (CBCS Pattern) Sem-I PSCZOOT03 - Cell Biology and Genetics Paper-III

P. Pages : Time : T	1 nree Hours $* 1931 *$	GUG/W/22/11177 Max. Marks : 80
Not	 es: 1. All questions are compulsory to solve. 2. All questions carry equal marks. 3. Draw well labelled figures wherever necessary. 	
1.	Describe structural organization and functions of mitochondria.	16
	OR	
	Write notes on:	16
	a) Models of biological membrane	
	b) Mitosis	
2.	Explain signal transduction pathways and their regulation.	16
	OR	
	Write notes on:a) Hormones and their receptorsb) Virus induced cancer	16
3.	Give an account of Gene mutation types, causes and detection.	16
	OR	
	Write notes on:a) Mono and dihybrid inheritanceb) Crossing over	16
4.	Write an essay on cytoplasmic inheritance and inheritance of mitochondri	al genes. 16
	OR	
	Write notes on:a) Recombination in Bacteriab) Genetic disorders.	16
5.	Write 4 or 5 lines on the followings:	16
	 i) Microfilaments ii) Integrins iii) Analysis of Variation iv) Inversion 	
