P. Pages : 1 Time : Three Hours		ours * 3 3 2 0 *	GUG/W/18/11217 Max. Marks : 80
Not	es: 1	. All questions are compulsory and carry equal marks.	
1.	Disc	uss structure and organisation of prokaryotic cell membran	e. 16
		OR	
	Give	the details of fluorescence photobleaching recovery.	
2.	Disc	uss active, passive transport and uniport.	16
	Writ	e about	
	a)	ATP powered pumps.	8
	b)	Transepithelial transport.	8
3.	Desc	cribe in detail G-protein coupled receptors. Discuss the role	of their effectors. 16
	Writ	e short notes on OR	
	a)	Concept of cell signaling.	8
	b)	regulation of signaling pathways.	8
4.	Give	the details of histidine kinase pathway and its applications	. 16
		OR	
	Disc	uss about basic two component system of bacteria.	
5.	Writ	e notes on :	
	a)	Fluorescence photo bleaching recovery.	4
	b)	Transepithelial Transport.	4
	c)	Down regulation of pathways.	4
	d)	Mating types of yeast.	4

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