M.Sc.(Microbiology) (CBCS Pattern) Semester - II **PSMBT-106 - Paper-II : Membrane Structure and Signal Transduction**

	ges : 1 : Three Hours	× 1 3 9 5 ×	GUG/S/23/11217 Max. Marks : 80
	Notes : 1. 2.	All the questions are compulsory and carries equal marks. Draw the diagram wherever it is necessary.	
1.	Write a	bout	
	,	ow cytometry.	8
	b) Di	fferential scanning colorimetry.	8
		OR	
	Write in	n detail about membrane junctions.	16
2.	Describ	e mechanism of active and passive transport?	16
		OR	
		ote on followings.	
		on gated ion channels.	8
	b) A7	ΓP powered pumps.	8
3.	Explain	the following.	
	a) De	escribe RTK kinases.	8
	b) Gi	ve details on G-protein coupled receptors.	8
		OR	
	Discuss	cytokine receptors and their mechanism in details?	16
4.	Explain	in brief.	
		stidine kinase pathway.	8
	b) Ma	ating types of yeast.	8
		OR	
	Write a	bout Osmoregulatory pathway, in detail.	16
5.	Add a n	ote on.	
		itochondria.	4
	h) Ur	inort	Λ
	b) Ur	iiport.	4
	c) JA	K – STAT pathway.	4
	d) He	eat shock proteins.	4
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