M.Sc.(Microbiology) Sem-I (Old) MB1-T002 - Paper-II : Microbial Physiology & Metabolism

P. Pages : Time : Thr		ours * 1 6 2 1 *	GUG/S/19/2187 Max. Marks : 80
1.	Wri	te in details about electron transport chain in mitochondria. OR	16
	Wri a)	te notes on. Glycogenesis and Gluconeogenesis.	8
	b)	Chemoistic theory and uncouplers.	8
2.	Des	cribe the biosynthetic of lipid and add note on regulation of lipid metabo	olism. 16
	Wri a)	te notes on C_3 and C_4 pathway.	8
	b)	Energy generation in Cyanobacteria and Chemolithotrophs.	8
3.	Exp	Explain the pathway of biosynthesis of amino acids. OR	
	Wri a)	te notes on Urea cycle.	8
	b)	Biosynthesis of purine.	8
4.	Describe in detail about genetics of nitrogen fixation. Add note on nif gene and its regulation.		
		OR	
	wn a)	te notes on Nitrogen cycle.	8
	b)	Symbiotic nitrogen fixation.	8
5.	Write short notes on:		
	a)	Substrate level phosphorylation.	4
	b)	Ketone bodies.	4
	c)	Domination.	4
	d)	Function of nitrogenase enzyme.	4
