[SPDBT-104] M.Sc. DEGREE EXAMINATION

Biotechnology I YEAR

ENZYMOLOGY AND METABOLISM

(Effective from the admitted batch 2009-10)

Time: 3 Hours Max.Mar				
Instructions: All parts of the unit must be answered in one place on Figures in the right hand margin indicate marks allotted				
1.	a) b) c) d) e) f) g)	Classifi Iso enz Regulat Transar Phenyl Ketone Lesch-r	y Four of the following: (4x5 = 1) ication of Enzymes ymes tion of Glycogen Metabolism mination Ketonuria Bodies formation nyhan syndrome e question from each unit. ion carried 10 marks: UNIT-I	= 20)
2.			OR De Michaelis-Menten equation and write the significance	10 e
	σ,	of K _m	UNIT-II	10
3.	a)	-	n competitive and un-competitive enzyme inhibitions ne weaver-Burk plots	10
			OR	
	b)	Describ	be the different methods of immobilization of enzymes	10

UNIT-III

		UN11-111	
4.	a)	Describe TCA cycle and its regulation	10
		OR	
	b)	Describe HMP shunt and its significance	10
		UNIT-IV	
5.	a)	Describe how Ammonia is converted to urea and its regulation	10
		OR	
	b)	Describe the β -oxidation of Fatty acids	10
		UNIT-V	
6.	a)	Describe the catabolism of Purine Nucleotides	10
		OR	
	b)	Write the formation of deoxy ribonucleotides and its regulation	10
		[01/IY/2	210]