[SPDBT-102] M.Sc. DEGREE EXAMINATION

Biotechnology

I YEAR

BIOMOLECULES

(Effective from the admitted batch 2009-10)

Ti	me	3 Hour	Max.Marks: 70					
Instructions:			All parts of the unit must be answered in one place only. Figures in the right hand margin indicate marks allotted.					
1.	 a) b) c) d) e) f) g) An 	Sulphur Tertiary Homope Comple Pyrimid Ribonuc Essentia	cleic acid (RNA) al amino acids e question from each unit. on carried 10 marks:	(4x5 =	20)			
2.	a)	Give an	UNIT-I account of classification of proteins		10			
2.	<i>a)</i>		OR		10			
	b)	Enumer	rate chemical properties of amino acids		10			
	UNIT-II							
3.	a)	Write sl	hort notes on α -helix, β -sheets and collage	en triple helix	10			
			OR					
	b)	Write a	note on solid phase peptide synthesis		10			

UNIT-III

4.	a)	What are glycosamino glycans? Give names of any three glycosamino glycans along with repeating unit	10			
		OR				
	b)	Write briefly about: reducing and non-reducing sugars and differences between amylase and amylopectin	10			
UNIT-IV						
5.	a)	How are lipids classified? Give one example each	10			
	OR					
	b)	Name the nuclear skeleton in the molecule of cholesterol. Describe colour reactions of cholesterol	10			
UNIT-V						
6.	a)	Name the nucleosides of adenine, guanine, cytosine, thyamine and Uracil with Ribose OR	10			
	b)	In what respect A-, B- and Z-DNAs differ?	10			
		[01/IY/2	210]			