AU-254

## M.Sc. (Part-I) Semester-I (C.B.C.S. Scheme) Examination

#### BIOCHEMISTRY

#### (Biomolecules)

### Paper—I

Tim	ie : T	hree Hours]	[Muximum Marks : 80		
Not	Note:—(1) All questions are compulsory.				
		(2) All questions carry equal marks.			
		(3) Draw diagrams wherever necessary.			
1.	Des	scribe structure of protein in detail.	16		
		OR			
	(a)	Explain denaturation and renaturation of protein.	8		
	(b)	Describe concept of covalent and weak bonds in protein structure	e. 8		
2.	Des	cribe structure of glycogen and starch.	16		
OR					
	(a)	Discuss importance of glycoproteins and glycolipids.	8		
	(b)	Describe blood group sugar compounds.	8		
3.	Des	cribe chemistry of bile salts and bile acids. Describe their role.	16		
OR					
	(a)	Describe structure of cholesterol.	5		
	(b)	Give structural derivation of testosterone.	6		
	(c)	Discuss occurrence of lipid in living system.	5		
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4.	Des	scribe structure of DNA and give brief account of types of DNA.	16
		OR	
	(a)	Explain structure of transport RNA.	(
	(b)	Describe isolation of nucleic acid.	Š
	(c)	Discuss separation assay methods for nucleic acids.	<u>.</u>
5.	(a)	Describe structure of haemoglobin.	5
	(b)	Describe structure of porphyrins.	8
		OR	
	(0)	Describe importance of porphyrins in living system.	8
	(d)	Discuss classification and structure of chlorophyll.	S