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

Paper—I: Biomolecules

lim	le: 3 hours [Maximum Mark	s : 80
	Note:—(1) All questions are compulsory and carry equal marks.	
	(2) Draw well labelled diagrams and figures wherever necessary.	
l.	Discuss the following in short:	
	(a) Isolation of enzymes (proteins).	5
	(b) Assay method.	5
	(c) Protein sequencing.	6
	OR	
	(p) Ramchandran plot.	5
	(q) Concept of covalent and weak bonds.	5
	(r) Primary and secondary structure of protein.	6
2.	Discuss the following in short:	
	(a) Importance of glycoproteins.	5
	(b) What are glycolipids? Give their importance.	5
	(c) Describe blood group sugars.	6
	OR	
	(p) What are lectins? Describe their properties.	5
	(q) Discuss about starch.	5
	(r) What is animal starch? Describe its structure.	6
3.	(a) What is cholesterol? Describe its structure.	5
	(b) Describe chemistry of bile acids.	5
	(c) What in role of testosterone? How it is synthesized?	6
	OR	
	(p) What in progesterone? What is its role in human beings?	5
	(q) What are bile salts? What is its role?	5
	(r) Draw structure of Vitamin D. Describe its beneficiary symptoms in human beings.	6
4.	Describe structure of DNA in detail.	16
	OR	
	How Nucleic acid sequencing is performed? Describe and discuss in detail.	16
5.	What is the importance of porphyrins in biology?	16
	OR	
	Describe structure and role of hemoglobin.	16

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