AQ - 839

First Semester M. Sc. (Part-I) (CBCS) Examination

BIOCHEMISTRY

Paper I Biomolecules

P. Pages: 3

Time: Three Hours] [Max. Marks: 80

Note: All questions are compulsory and carry equal marks.

 Explain the isolation, separation and assay methods of protein.

OR

Describe secondary and tertiary structure of protein.

Add a note on Ramchandran plot.

16

- Write in brief about following :—
 - (a) Importance of glycolipids. 5
 - (b) Structure of glycogen. 5
 - (c) Blood group sugar compounds. 6

AQ-839

P.T.O.

OR

	(p)	Importance of glycoproteins.	5
	(b)	Structure and functions of starch.	5
	(c)	Uses and characteristics of Lectin.	6
3.	(a)	Explain the structure of cholesterol in de	
			. 6
	(b)	Discuss the structural derivation testosterone.	of 5
	(c)	Write biosynthesis of bile acids.	5
		OR	
	Disc	cuss the structural derivation of	
	(p)	Progesterone.	6
	(q)	Estrogen.	5
	(r)	Vitamin D.	5
4.	(a)	Explain Maxam - Gilberts method of nucleacid sequencing.	leic 8
	(b)	Give any two methods for separation nucleic acids.	of 8

OR

- (p) Discuss in detail structure of DNA with all its forms.
- (r) Describe in brief the clover Leaf model of t RNA. Give its functions. 8
- Describe in detail structure and functions of Hemoglobin. Also give importance of porphyrins in biology.

OR

What are porphyrins? Describe in brief the structure of chlorophyll.
