AQ - 840

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

BIOCHEMISTRY

Paper-II Analytical Techniques

P. Pages: 3			
Time: Three Hours] [Max. Mark			s : 80
	Note	e: All questions are compulsory and carry marks.	equal
1.	Write in short on :		
	(a)	Marker enzymes.	5
	(b)	Ultra filtration.	5
-	(c)	Methods for lysis of animal cells.	6
		OR	
	(p)	Freeze drying techniques.	5
	(q)	Sub cellular fractionation.	5
	(r)	Use of detergents in isolation of men	nbrane
		protines.	6

What is chromatography? Explain any two types of chromatography in detail.

OR

Describe in detail principle, method and applications of HPLC.

- Write in short on :—
 - (a) Western blotting.

8

(b) Isoelectric focussing.

8

OR

(p) Southern blotting.

8

(q) Polyacrylamide gel electropharesis.

 (a) Describe UV – visible spectroscopy with well labeled diagram and applications.

(b) Explain instrumentation of ESR and its applications.

OR

(p) Explain instrumentation of NMR and its applications.

- (r) Describe X-ray diffraction with its applications.
- Write in detail about liquid scientillation counter and its applications.

OR

Write in detail principle and application of tracer technique.
