	Reg. No	
	FIRST SEMESTER M.Sc. DEGREE EXAMINATION, MARCH 2004	
	General Biotechnology	
	GBT 102. BIOMOLECULES	
Time	: Three Hours Maximum : 80 M	Jarke
Time		Idiks
	Section A	
	Answer any two questions.	
1.		
2.		
3.	ı ı	
	$(2 \times 10 = 20 \text{ m})$	arks)
	Section B	
	Answer any ten questions.	
4.	Explain Bronsted-Lowry concept of acids and bases.	
5.	What are weak chemical bonds ?	
6.	Write briefly on two important biomolecules.	
7.	Give importance of hydrophilic amino acids in protein structure.	
8.	What is optical activity? Give its structural basis.	
9.	1 1	
10.	What is cellobiose?	
11.	Write briefly on the structure of starch.	
12.	What is centrifugation ?	
13.	What are phospholipids?	
14.	What is Ramachandran map?	
15.	Write on IR spectroscopy.	
	$(10 \times 5 = 50 \text{ m})$	arks)
	Section C	
	Answer all questions.	
16.	Define pH.	
17.	What is isoelectric point?	
18.	What is disulphide bond ?	
19.	What are purines?	
20.	What is the function of a detergent ?	
	$(5 \times 2 = 10 \text{ m})$	arks)