

M.Sc. (Sem.-I) Examination
402 Bio Medical Technology
December-2017

Time : 3 Hours]

[Max. Marks : 70

NB: All questions are compulsory		
Illustrate your answer with neat diagrams wherever necessary		
Q-1(A)	Describe the causes symptoms and management of <u>lactose intolerance</u> .	7
OR (A)	Explain any one method to analyse <u>calcium content</u> in food.	
B)	Write an account on the functions and mechanism of action of <u>insulin</u> .	7
	Explain metabolic changes in its absence.	
OR (B)	Describe types, symptoms and biochemical alterations in <u>diabetes mellitus</u> .	
Q-2(A)	Write a note on urine analysis. ✓	7
OR (A)	Write a note on creatinine clearance test. ✓	
(B)	Describe renal diseases.	7
OR (B)	Describe microscopic examination of crystals in urine. ✓	
Q-3(A)	Describe amino acid disorders.	7
OR (A)	Explain estimation of 5-hydroxyindole.	
B)	Write a note on Tay Sachs disease.	7
OR (B)	What is lipid profile? Explain.	
Q-4(A)	Give an account on types and diagnosis of jaundice.	7
OR (A)	Write a note on liver function test.	
B)	Describe glucuronyltransferase mutation.	7
OR (B)	Discuss bilirubin metabolism and excretion.	
Q-5	Answer the following (One mark each) .	14
1	Define: Impaired glucose tolerance.	
2	What is ketoacidosis?	
3	What are non-protein nitrogen substance in blood?	
4	Briefly explain: GSD type I?	
5	State the formula for calculating renal clearance.	
6	Give functions of pancreas.	
7	Mention any two gut hormones and their functions.	
8	Which are metabolite of phenylalanine increase in PKU?	
9	Name two hormones regulating the blood glucose level.	
10	What is GTT?	
11	Name two phospholipids.	
12	Explain phototherapy.	
13	What is macrophage system?	
14	Mention role of transferrin.	