## **PARUL UNIVERSITY** FACULTY OF APPLIED SCIENCE M.Sc. Winter 2018-19 Examination

Enrollment No:\_\_\_\_\_

Semester: 1 Subject Code: 11203102 Subject Name: Intermediary metabolism	Date: 07/12/2018 Time: 10:30 am to 1:00 pm Total Marks: 60
Instructions:	
1. All questions are compulsory.	
2. Figures to the right indicate full marks.	
3. Make suitable assumptions wherever necessary.	
4. Start new question on new page.	
Q.1. A) Essay type/ Brief note (4x2) (Each of 04 marks)	(08)
(a) Describe the regulation of glycolysis.	
(b) Give a note on Glyoxylate cycle.	
Q.1. B) Answer the following questions (Any two)	
(a) Describe Gluconeogenesis with the help of diagram.	(04)
(b) Short note: Urea cycle.	(04)
(c) Define transamination. List out silent features of transamination	on. (04)
Q.2. A) Answer the following questions.	
(a) Give an account on HMP shunt.	(04)
(b) Give difference between glycogenic amino acids and ketoger	nic amino acids. (04)
Q.2. B) Answer the following questions (Any two)	
(a) Write a note on utilization of ketone bodies.	(03)
(b) Short note: Melatonin.	(03)
(c) Short note: Ketogenesis.	(03)
Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks)	(08)
Write a note on disorders of purine metabolism.	
Q.3. B) Answer the following questions (Any two)	
(a) Explain oxidation of fatty acids.	(04)
(b) Describe the functions and metabolism of phospholipids.	(04)
(c) Give outline of cholesterol biosynthesis and write its function	
Q.4. A) Answer the following questions.	
(a) How AMP and GMP are synthesized from IMP?	(04)
(b) Write a short note on any one inborn error of amino acid met	
Q.4. B) Answer the following questions (Any two)	
(a) Write the name of disease caused by increased glucose level	in blood. Explain it. (03)
(b) Give an account on Lesch-Nyhan syndrome.	(03)
(c) List out disorders of urea cycle.	(03)