Seat No: Enrollment No:

PARUL UNIVERSITY

## FACULTY OF APPLIED SCIENCE

**B.Sc. Summer 2017-18 Examination** 

Semester: 2 Date: 11/05/2018

Subject Code: 11103151 Time: 10:30AM T0 01:00PM

Subject Name: Biochemistry II 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)Explain TCA cycle.	(08)
Q.1. B)Answer the following questions (Any two)	
(a) Give the flowchart of gylcolysis	(04)
(b) Explain the importance of HMP shunt.	(04)
(c) Explain the Wald's visual cycle.	(04)
Q.2. A)Answer the following questions.	
(a) Short note: Vitamin D	(04)
(b) Short note: α oxidation	(04)
Q.2. B)Answer the following questions (Any two)	
(a) Differentiate between saturated and unsaturated fats.	(03)
(b) Differentiate between fat soluble and water soluble vitamins.	(03)
(c) Give 3 examples of vitamin like compounds.	(03)
Q.3. A)Explain urea cycle	(08)
Q.3. B)Answer the following questions (Any two)	
(a) Describe deamination	(04)
(b) Write a note on methionine	(04)
(c) Write a note on PKU	(04)
Q.4. A)Answer the following questions.	
(a) State the various classes of metabolic disorders.	(04)
(b) Short note: Link between Urea cycle and TCA cycle.	(04)
Q.4. B)Answer the following questions (Any two)	
(a) Differentiate between essential and non essential amino acids.	(03)
(b)Why are amino acids called zwitter ions?	(03)
(c) What are the disorders related to glycine metabolism?	(03)