## PARUL UNIVERSITY FACULTY OF APPLIED SCIENCE B.Sc.Winter2018-19 Examination

Semester: 2 Subject Code: 11103151 Subject Name: Biochemistry-II	Date: 12/12/2018 Time: 10.30 To 1.00 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 citric acid cycle with diagram.	(08)
Q.1. B) Answer the following questions (Any two)	
a) 1. Draw a chart of glycolytic pathway.	(04)
2. Short note on coenzymes.	
(b) Write a short note on classification of enzymes with suitable examples.	(04)
(c) Write a brief note on catabolism.	(04)
Q.2. A) Answer the following questions.	
(a) Fill in the blanks.	(04)
1. Vitamin E (tocopherol) is a naturally occurring	
2 is a precursor for the synthesis of acetylcholine which is required f	or transmission
of nerve impulse.	
(b) Short note on deficiency of vitamins A.	(04)
(a) 1. Names of fat soluble & water soluble vitamins	(03)
2 What is the net ATP yield from complete oxidation of Palmitic acid	(03)
3 What is the function of peroxisomes	
5. What is the function of peroxisonles.	
(b) Give any three biochemical functions of Vitamin D.	(03)
(c) What are the four reactions involved in beta-oxidation proper.	(03)
Q.3. A) Brief note on Deamination.	(08)
Q.3. B) Answer the following questions (Any two)	
(a) Short note on the following:	(04)
1. Ammoniotelic	
2. Uricotelic	
(b) Describe salient features of transamination.	(04)
(c) What is protein turn over.	(04)
Q.4. A) Answer the following questions.	
(a) Fill in the blanks.	(04)
1. The deficiency of adenosine deaminase (ADA) causes involv.	ing 1-cen and
2 is a complex disease characterized by thickening of arteries due t	to the
accumulation of lipids	to the,
(b) Explain disorders related to carbohydrates metabolism.	(04)
<b>O.4.</b> B) Answer the following questions (Any two)	
(a) Write a short note on	(03)
1. Hyperglycemia	
2. Hypoglycemia	
3. Inborn error of protein metabolism	
(b) Discuss the metabolic disorder related to lipid metabolism.	(03)
(c) Explain disorders related to pyrimidine metabolism.	(03)