PARUL UNIVERSITY FACULTY OF APPLIED SCIENCE M.Sc. Winter 2019-2020 Examination

Enrollment No: _____

M.Sc. Winter 2019-2020 Examination	
Subject Code: 11209115 Time	: 29/11/2019 e: 10.30 am To 1.00 pm.
	l 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) Draw Gluconeogenesis Cycle	
(b) Explain Gluconeogenesis Cycle	
Q.1. B) Answer the following questions (Any two)	
(a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of	f 02 marks) (04)
1. State Lambert's Law	
2. State Beer's Law	
(b) Short note High Pressure Liquid Chromatography	(04)
(c) Short note Gas Liquid Chromatography	(04)
Q.2. A) Answer the following questions.	
(a) Short note/ Brief note $(2x2)$ / Fill in the blanks. (Each of 02 marks)	(04)
1. Enlist the names of 5 co factors involved in Oxidative Decarboxylation	L
2. Enlist the names of 3 enzymes involved in Oxidative Decarboxylation	
(b) Draw Kreb Cycle	(04)
Q.2. B) Answer the following questions (Any two)	
(a) Short note/ Multiple choice questions. (Each of 01 marks)	(03)
1. Define Hormones	
2. Define agonist	
3. Define receptor	
(b) Short note on Importance of Kreb Cycle	(03)
(c) Short note on Importance of Glycolysis Cycle	(03)
Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks)	(08)
(a) Write in detail about Oxidative Phase Of HMP Shunt	
(b) Write in detail about Non- Oxidative Phase Of HMP Shunt	
Q.3. B) Answer the following questions (Any two)	
(a) Short note/ Brief note $(2x2)$ / Schematically label the figures $(2x2)$ (Each	of 02 marks) (04)
1. Draw a neat and well labeled diagram for atomic absorption spectrophe	
2. Write in short about Amino acid induced Gluconeogenesis	
(b) Short note on role of cAMP as second messenger	(04)
(c) Short note on Calmodulin	(04)
Q.4. A) Answer the following questions.	
(a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks)	(04)
1. Write in short about intracellular messengers	
2. Write a short note on Fatty acid Synthase Complex	
(b) Short note on cholesterol and its synthesis	(04)
Q.4. B) Answer the following questions (Any two)	(04)
(a) Short note/ Multiple choice questions. (Each of 01 marks)	(03)
1. Human Body can store uptog of Glycogen in liver and muscle	
 In thin an Body can store up tog of Grycogen in fiver and muscle Glycolysis is inhibited byhormone 	/0.
 3vitamin is required for biosynthesis of fatty acids 	
· · ·	(02)
(b) Short note Ion Exchange Chromatography(c) Short note on Colorimeter	(03) (03)
	(03)