Seat No:\_

Enrollment No:\_\_\_

## PARUL UNIVERSITY

## FACULTY OF APPLIED SCIENCE

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

Semester: 2 Date: 11/05/2018

**Subject Code: 11103152** Time: 10.30 am to 1.00 pm

Total Marks: 60

Subject Name: Me	tabolisiii- 1	Total Marks: 00	
<b>Instructions:</b>			
1. All questions are	compulsory.		
2. Figures to the rig	ht indicate full marks.		
3. Make suitable ass	sumptions wherever necess	sary.	
4. Start new questio	n on new page.		
Q.1. A) Essay Typ	ie.		(08)
	e Glycogen synthesis.		(00)
	e following questions (Ar	ny two)	
•	be briefly the significance of	· · ·	(04)
	well labeled diagram of T		(04)
	short note on Oxidative pl		(04)
	e following questions.		` '
-	he blanks. (Each of 02 mag	arks)	(04)
1. A spe	cialized system for transposition	ort of activated fatty acids from cytosol to mitochondria	
is			
2. Acety	l CoA from mitochondria	is transported into cytosol after its conversion to	
	for fatty acid biosynt		
(b) Draw th	he pathway for beta oxidat	ion of palmitic acid.	(04)
	e following questions (Ar		
	e choice questions.	(Each of 01 marks)	(03)
	is not a ketone body.		
(A) A		(B) β-Hydroxy butyrate	
· ·	cetoacetate	(D) Acyl CoA	
	•	esized in the body and has to be supplied in the diet is	
	almitic acid	(B) Lauric acid	
	nolenic acid	(D) Palmitoleic acid	
	cholesterol molecule is	(P) O ' 1' 1 ' ('	
	Senzene derivative	(B) Quinoline derivative	
` '	teroid	(D) Straight chain acid	(02)
	hree steroid hormones syn	imesized from cholesterol.	(03)
Q.3. A) Essay Typ	be fatty acid synthesis.		(03) (08)
	be Urea cycle with the help	of diagram	(00)
	•		
•	Answer the following questions (Any two)  (a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks)		
	nsamination	indically label the figures (2x2) (Each of 62 marks)	(04)
	mination		
		and Glucogenic aminoacids.	(04)
	GS/GOGAT pathway.	and Cracogonic animoacrasi	(04)
	Answer the following questions.		
•	(a) Describe de novo pathway for Purine biosynthesis.		(04)
	(b) Describe Pyrimidine biosynthesis briefly.		(04)
	e following questions (Ar	•	` ,
-	nswer questions.	(Each of 01 marks)	(03)

· · · · · · · · · · · · · · · · · · ·	ims wer the following questions (ring t	
	(a) Short answer questions.	(Each of 01 marks)
	1 Conversion of ribonucleotides to de	acyuribanuclactidas is catalyzad by which anzyma

1. Conversion of ribonucleotides to deoxyribonucleotides is catalyzed by which enzyme. 2. What is the end product of purine metabolism in humans?

3. Write the name of metabolic disease associated with over production of Uric acid. (b) Name the components that make the nucleotides?

(03)(c) Draw the structures of purine nitrogen bases. (03)