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

## PARUL UNIVERSITY

## **FACULTY OF ENGINEERING & TECHNOLOGY**

B.Tech. Winter 2018 - 19 Examination

Semester: 1 Date: 13/12/2018

Subject Code: 203116103 Time: 02:00 pm to 04:30 pm

Subject Name: Biochemistry & Human Nutrition Total Marks: 60

Inst	ructions:		
	Il questions are compulsory.		
	gures to the right indicate full marks.		
	ake suitable assumptions wherever necessary.		
	art new question on new page.		
	1		
Q.1	Objective Type Questions - (All are compulsory) (Each of one mark)		<b>(15)</b>
	1. Fats are abundantly found in		
	a. Reproductive tissue	b. Creatine kinase	
	c. Both a and b	d. None of the above	
	2. Amino acids are known as		
	a. Energy molecules	b. Positive ions	
	c. Zwitter ion	d. Negative ions	
	3. Which is a water-soluble vitamin?		
	a. C	b. B	
	c. Both (a) and (b)	d. None of the above	
	4. Live microbial feed supplement is known as		
	a. flavor enhancer	b. Probiotics	
	c. coloring agent	d. curing agent	
	5. TCA cycle starts in which organelles?		
	a. mitochondria	b. cytoplasm	
	c. Golgi body	d. Both a & b	
	6 are biological catalysts produ		
	7. Amino acids that are synthesized in our body and so they are known as		
	8 are multiple forms of the enzyme that have the same catalytic activity.		
	0 '.1 11		
	<ul><li>9 is the energy currency of the cell.</li><li>10. A diet is one that gives your body the nutrients it needs to function correctly.</li></ul>		
	11. What is the composition of milk?		
	<ul><li>12. Name the bond which joins the amino acids.</li><li>13. Write full form of RNA.</li></ul>		
	14. Give one example of artificial sweetener used in food.		
$\alpha$	15. What do you called a nuclide with an unbalanced and unstable nucleus?  Answer the following questions. (Attempt any three)		(15)
Q.2	A) Describe isoenzyme in detail.		(15)
	B) Write down difference between oil & fats.		
	C) Write a note on the concept of balanced diet.  D) Define Viteming, Explain the functions of fat coluble viteming.		
O 2	D) Define Vitamins. Explain the functions of fat-soluble vitamins.		(07)
Ų.S	<ul><li>A) Explain structure of protein.</li><li>B) Define immobilized enzymes. Explain different methods of immobilization.</li></ul>		(07) (08)
	· · · · · · · · · · · · · · · · · · ·		(08)
	B) What are preservatives and colouring agents? I	OR Evoloin it in detail	(08)
$\Omega A$	A) Draw the diagram of TCA cycle with proper la		(0 <del>0</del> )
Ų.4		OR	(07)
	A) What cultured dairy products means? Explain		(07)
	B) What are the factors affecting the digestion pro	· ·	(07) $(08)$
	by which are the factors affecting the digestion pro		(00)