Semester: 1

Subject Code: 11213102

Subject Name: Biochemistry and Nutrition

PARUL UNIVERSITY FACULTY OF APPLIED SCIENCE M.Sc.,Winter 2019-20 Examination

Enrollment	No:
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Date: 02.12.2019
Time: 10:30am to 1:00pm
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.	
. Suit new question on new page.	
Q.1. A) Brief note	(08)
(a) Explain importance and scope of nutrition?	
(b) Write in detail about digestion and absorption of protein?	
Q.1. B) Answer the following questions (Any two)	(04)
(a) Short note (Each of 02 marks)	
1. Net Protein utilization	
2. RDA	
(b) Write on perishable foods?	(04)
(c) Give importance food to our body?	(04)
Q.2. A) Answer the following questions.	(04)
(a) Fill in the blanks. (Each of 02 marks)	
1causes deficiency of night blindness.	
2. Amino acids are building blocks ofnutrients.	
(b) Explain in detail digestion and absorption of carbohydrate?	(04)
Q.2. B) Answer the following questions (Any two)	
(a) Multiple choice questions. (Each of 01 marks)	(03)
1. Starch istype of carbohydrate?	
a. Polysaccharide	
b. Monosaccharide	
c. Disaccharides	
d. Oligosaccharide	
2is milk protein?	
a. Casein	
b. Zein	
c. Albumin	
d. None of above3. Vitamins C also called as?	
a. Malic acid	
b. Citric acid	
c. Picric acid	
d. All of above	
(b) Explain in detail synthesis of amino acids?	(03)
(c) Write importance of balance diet?	(03)
Q.3. A) Brief note (4x2) (Each of 04 marks)	(08)
(a) Explain the sources, requirements and functions of carbohyd	rates?
(b) Elaborate on deficiency of vitamins and minerals?	
Q.3. B) Answer the following questions (Any two)	
(a) Brief note (Each of 02 marks)	(04)
1. Classification of food on basis of energy content.	

2. Write down sources of protein.

(b) Explain digestive system of human body?	
(c) What are the steps involved nutritional assessment of human?	(04)
 Q.4. A) Answer the following questions. (a) Fill in the blanks. (Each of 02 marks) 1enzyme breaks down most of protein in food? 2. 1 gm of protein givescalories? (b) Write in detail respiratory system of human body? 	(04) (04)
Q.4. B) Answer the following questions (Any two)	
(a) Multiple choice questions. (Each of 01 marks) 1. Function of food	(03)
a) To give energyb) To give nutrientsc) both A and Bd) None of above	
2. 1 gm of lipid givescalories	
a) 2 b) 4 c) 12 d) 8	
3day of world Food day	
a) 12 Januaryb) 16 Decemberc) 16 Octoberd) None of above	
(b) Explain in detail metabolism of lipid?(c) Discuss on neutraceuticals and functional foods in detail?	(03) (03)