


<b>Name:</b>	 <b>UPES</b> UNIVERSITY WITH A PURPOSE
<b>Enrolment No:</b>	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**End Semester Examination, December 2019**

**Course: B.Sc. LLB**

**Program: Food and Nutrition**

**Course Code: CLNL2029**

**Semester: III<sup>rd</sup>**

**Time: 03 hrs.**

**Max. Marks: 100**

**Instructions: Read the paper carefully.**

**SECTION A**

Q 1	All of the following are nutrient found in food except i. Protein    ii. Carbohydrate    iii. Plasma    iv. Lipids	<b>1</b>	<b>CO1</b>
Q 2	The substance needed by body for growth, development, repair and maintenance i. Nutrient    ii. Calorie    iii. Blood    iv. Fatty acid	<b>1</b>	<b>CO1</b>
Q 3	The food compound present in sugar is i. Fat    ii. Vitamin    iii. Protein    iv. Carbohydrate	<b>1</b>	<b>CO2</b>
Q 4	Essential for forming hemoglobin in the blood i. Calcium    ii. Phosphorus    iii. Iron    iv. Magnesium	<b>1</b>	<b>CO3</b>
Q 5	The disease caused by the deficiency of iron i. Beri-beri    ii. Rickets    iii. Cretinism    iv. Anemia	<b>1</b>	<b>CO4</b>
Q 6	The disease caused by the deficiency of iodine i. Goiter    ii. Swine flu    iii. Anemia    iv. Dwarfism	<b>1</b>	<b>CO3</b>
Q 7	Dairy products are rich source of i. Magnesium    ii. Copper    iii. Zinc    iv. Calcium	<b>1</b>	<b>CO4</b>
Q 8	The mineral necessary for preventing dental caries i. Iron    ii. Fluorine    iii. Phosphorus    iv. Selenium	<b>1</b>	<b>CO4</b>
Q 9	The building blocks of protein called i. Amino acids    ii. Lipoproteins    iii. Carbons    iv. Amino chains	<b>1</b>	<b>CO2</b>
Q 10	What is the calcium requirement for: i. A boy of age 13-15 years	<b>1</b>	<b>CO1</b>

**SECTION B**

Q 1	Discuss the role of different hormones in maintaining normal blood sugar levels.	<b>10</b>	<b>CO1</b>
Q 2	Classify lipids. Elaborate the role of lipids in human body. How are they digested and absorbed in human body.	<b>10</b>	<b>CO3</b>

**SECTION-C**

Q 1	Explain the significance of RDA. Mention the practical applications of RDA.	<b>10</b>	<b>CO2</b>
Q 2	Explain the nutritional classification of proteins. Describe the process of digestion and absorption of proteins in human body.	<b>10</b>	<b>CO3</b> <b>CO2</b>
<b>SECTION-D</b>			
Q 1	Describe total energy requirement. Explain in detail the factors determining it. Mention RDA for energy required for the individuals of different age group.	<b>25</b>	<b>CO3</b>
Q 2	Attempt any one of the following: (a) Discuss functions, requirement, sources and effects of deficiency of macro and micro minerals (b) Discuss the requirement and sources of fat and water-soluble vitamins for health and nutrition. Explain their functions and mention the diseases caused by their deficiency.	<b>25</b>	<b>CO4</b> <b>CO1</b>