



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme - B.Optometry-2023 **Course Name – Nutrition** Course Code - BOPTOC104 (Semester I)

Time: 2:30 Hours Full Marks: 60

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

15

		oup-A	x 15=:	
1.	Choose the correct alternative from the follow	- Type duestion	(15-	
(i)	Discuss the common eye condition associated with severe PEM			
	a) Myopia	b) Cataracts		
	c) Conjunctivitis	d) Glaucoma		
(ii)	vitamin deficiency is often associated to eye problems in PEM			
	a) Vitamin A	b) Vitamin C		
	c) Vitamin D	d) Vitamin K		
(iii)	Accumulation of ketone bodies in blood is reported as			
	a) Ketonuria	b) Ketosis		
	c) Ketoacidosis	d) Acetone formation		
(iv)	Classify the six essential nutrients			
	a) Carbohydrates, Proteins, enzymes, vitamins, minerals, and water.	 b) Carbohydrates, proteins, antioxidants vitamins, minerals, and water. 	•	
	c) Carbohydrates, proteins, fats, vitamins, minerals, and water.	d) Carbuhydrate and water		

- (v) Which of the following food group contains lauric acid which is used treat certain infections and also in the manufacture of soaps
 - c) Mustard Oil
- d) Butter
- (vi) State the elements present in the proteins are

a) Coconut Oil

- a) Carbon, hydrogen, nitrogen, and oxygen.
- b) Carbon, hydrogen, and oxygen.
- Hydrogen, nitrogen, and oxygen. d) Carbon and hydrogen
- (vii) Identify the following essential amino acids which is not synthesized by the body
 - a) Arginine c) Histidine

b) Glutamine

b) Olive Oil

d) Proline

---- is selected as the ideal food for (viii) Up to the age of six months, --newborns and young infants

(ix)	a) soy milkc) breast milk) State the name of the disease which is caused b	b) rice cereal d) iron-fortified formula y protein-energy malnutrition		
(x)	a) anginac) marasmusWhich mineral helps in the regulation of blood	b) goiter d) tuberculosis volume and blood pressure?		
(xi)	a) Sodiumc) IronWhat is known as disorders related to nutrition	b) Phosphorous d) Iodine ?		
(xii	a) balancing of nutritionc) solubility of nutrition) Amino acids are mostly synthesized from	b) insolubility of nutritiond) malnutrition		
(xiii	a) Fatty acidsc) Alpha ketoglutaric acid) Which one is a protein deficiency disorder?	b) Mineral salts d) Volatile acids		
(xiv	a) Scurvy c) Kwashiorkor d) Write the full form of RDA.	b) Anaemia d) None of the above		
(xv	a) Retired dietary allowancesc) Recommended daily allowances) Which of the following vitamin functions as bot	b) Recommended dairy allowances d) Recommended dietary allowances h, hormone and visual pigment?		
	a) Thiamine c) Riboflavin	b) Retinal d) Folic acid		
	Grou	-	3 x 5=15	
(Short Answer Type Questions) 3 x				
2. Discuss about balanced diet3. Explain the role of trace element which is a component of the enzyme that activates vitamin A in the eye				
 Describe the role of fibers in nutritional management Explain the significance of anthropometric measurements like body mass index (BMI) in assessing nutritional status. 				
6. Estimate the daily protein requirements for an athlete engaged in intense training, based on (3) their body weight and activity level. OR				
Evaluate the nutritional status of an elderly person living alone who has limited access to fresh foods and relies mostly on canned and packaged items				
Group-C (Long Answer Type Questions) 5				
-	(Long Answer Ty			
	Explain how essential amino acids play a crucial r		(5)	
8.	Explain how essential amino acids play a crucial r repair. Differentiate between omega-3 and omega-6 fatt	ole in supporting muscle growth and		
8. 9.	Explain how essential amino acids play a crucial r repair. Differentiate between omega-3 and omega-6 fatt physiological functions and sources Explain about PEM (Protein energy malnutrition)	ole in supporting muscle growth and cy acids in human health, including their	(5) (5) (5)	
8. 9. 10. 11.	Explain how essential amino acids play a crucial r repair. Differentiate between omega-3 and omega-6 fatt physiological functions and sources	ole in supporting muscle growth and by acids in human health, including their e absorption of calcium in the intestines nergy, protein, and fat, considering the and regions. How can these challenges by	(5) (5) (5) (5) (5)	

Estimate the daily energy needs of an average adult and explain how this estimation is used to set energy RDA levels. (5)