Brainware University Parasat, Kcikata -700125





## **BRAINWARE UNIVERSITY**

## Term End Examination 2024-2025 Programme - B.Optometry-2022/B.Optometry-2023/B.Optometry-2024 **Course Name – Nutrition Course Code - BOPTOC104** (Semester I)

Full Marks: 60 Time: 2:30 Hours [The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

1 x 15=15

|       | (Multiple Choice T  | ype Question) 1   |  |  |
|-------|---|---|--|--|
| 1.    | Choose the correct alternative from the following   | g: १०५९   |  |  |
| (i)   | Select the following food component which is reof the human body?   | equired for the growth and maintenance                      |  |  |
|       | a) Carbohydrates<br>c) Fat  | b) Protein<br>d) Minerals                                   |  |  |
| (ii)  | ii) Identify from the following food components which give energy to our body?                                    |   |  |  |
| (iii) | <ul><li>a) Proteins</li><li>c) Minerals</li><li>Identify the following food item provides dietarn</li></ul>       | b) Vitamins<br>d) Carbohydrates<br>y fibre?                 |  |  |
| (iv)  | <ul><li>a) Fish</li><li>c) Fruits and vegetables</li><li>Select from the following minerals which helps</li></ul> | b) Fat<br>d) Water<br>to build strong bones and teeth.      |  |  |
| (v)   | <ul><li>a) Iodine</li><li>c) Iron</li><li>Selct which one is not a component of food.</li></ul>                   | b) Calcium<br>d) Sodium                                     |  |  |
| (vi)  | <ul><li>a) Fats</li><li>c) Water</li><li>Name the most significant and essential minera</li></ul>                 | b) Fibres<br>d) None of these<br>I required for our body is |  |  |
|       | a) Iron c) Calcium Select which one is not lipid.   | b) Sodium<br>d) All of these                                |  |  |
|       | <ul><li>a) Fats</li><li>c) Proteins</li><li>The Deficiency of vitamin E is associated with</li></ul>              | b) Oils<br>d) Waxes   |  |  |

a) Soft Bones

c) Weakness in muscles

b) Bleeding in gums

d) Neurological disorders

| (ix)  | elect from the following food group that provides the body best source of energy,  |  |                                 |  |
|---|--|--|---------------------------------|--|
|   | a) Milk and cheese b) Me   | b) Meat group d) Bread and cereals Brainward                               |                                 |  |
| (xi)  |  | b) MUAC for age, sex and height<br>d) Height for age                       |                                 |  |
| (xii)   |  | ropthalmia<br>taracts<br>for oils and fats.                                |                                 |  |
|   | a) Benzene b) CC<br>c) CHCI3 d) Wa<br>) Select from the following which is used in the reaction  | il4<br>nter  |                                 |  |
|   |  | ong acld   |                                 |  |
|   | a) phospholipid b) gly   | cerol<br>olesterol<br>d in N-terminal is.                                  |                                 |  |
|   | a) Gly c) Arg d) Se  |  |                                 |  |
| Group-B<br>(Short Answer Type Questions) 3 x 5=15 |  |  |                                 |  |
| 3. E<br>4. E<br>5. D<br>6. E                      | Discuss about two functions of food. Explain how fruits act as important diet in human. Explain how milk and cheese act as important diet in hum Differentiate between complete protein and incomplete estimate the recommended daily intake of fruits and vego,000-calorie balanced diet.  OR | protein.   | (3)<br>(3)<br>(3)<br>(3)<br>(3) |  |
| E   | Evaluate the adequacy of micronutrients in a balanced d  | iet.   | (3)                             |  |
|   | Group-C  |  |                                 |  |
|   | (Long Answer Type Qu   | estions)   | 5 x 6=30                        |  |
| 8.  | Discuss about complete proteins with example of a foo Explain protein-energy malnutrition (PEM), and how do children in developing countries.  |  | (5)<br>(5)                      |  |
| 9.<br>10.   | Discuss the different method of Direct Nutritional assessing Discuss about the function of Vitamin-A.  |  | (5)<br>(5)                      |  |
| <b>12.</b> /                                      | A person weighs 70 kg and height is 1.75 m. Calculate A 5-year-old child from a low-income background preselight. He is underweight and has a history of frequent il starchy foods with little protein or fat. Analyze how pronight blindness.   | ents with difficulty seeing in low<br>Ilnesses. His diet consists mainly o | (5)<br>(5)<br>f                 |  |
|   | OR A 45-year-old male presents with chest discomfort and history of smoking (20 years) and a sedentary lifestyle mg/dl, cholesterol 220 mg/dl and HDL 12.Correlate the   | His lipid profile shows LDL 225  | a (5)                           |  |