CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

SPECIAL/RESIT

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN NURSING

NURS 121: NUTRITION AND HEALTH

STREAMS: B.Sc. (NURSING)

TIME: 2 HOURS

DAY/DATE: THURSDAY 12/08/2021 11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

- Answer **ALL** questions
- Do not write anything on the question paper
- This is a **closed book exam**, no reference materials are allowed in the examination room
- No use of mobile phones or any other unauthorized materials
- Write your answers legibly and use your time wisely

SECTION A: MULTIPLE CHOICE QUESTIONS [ONE MARK EACH] [20 MARKS]

- 1. Which of the following is not a consequence of vitamin A deficiency?
 - A. Xerophthalmia
 - B. Keratomalacia
 - C. Bitots spot
 - D. Osteomalacia
- 2. Lack of vitamin B may result in?
 - A. Weak bones
 - B. Tooth decay
 - C. Poor cellular respiration
 - D. Itchy skin.
- 3. Which of the following statements does not describe water-soluble vitamins?
 - A. Water-soluble vitamins are absorbed easily from the intestinal tract into the blood
 - B. Water-soluble vitamins are stored in large amounts in the body
 - C. Water-soluble vitamins are found in a wide variety of foods
 - D. Water-soluble vitamins are rarely toxic

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- 4. Which of the following is not a function of amino acids (from protein digestion) in the body?
 - A. Energy production
 - B. Regulation of body processes
 - C. Growth of body tissues
 - D. Maintenance and repair of body tissues
- 5. Those nutrients that the body cannot synthese and must be supplied in the diet are called?
 - A. Trace elements
 - B. Micronutrients
 - C. Essential nutrients
 - D. Non-essential nutrients
- 6. Which of the following foods contain goitrogens;
 - A. Rice
 - B. Meat
 - C. Nuts
 - D. Brassicas
- 7. Which of the following is a disaccharide?
 - A. Galactose
 - B. Fructose
 - C. Hemicellulose
 - D. Sucrose
- 8. A BMI of 18.4 is considered to be which of the following??
 - A. Underweight
 - B. Normal
 - C. Overweight
 - D. Obese
- 9. Which of the following methods of dietary assessment is more likely affected by recall bias?
 - A. 24-hour recall
 - B. Food record
 - C. Diet history
 - D. Food frequency
- 10. RDA represents the:
 - A. The highest amount of a nutrient that appears safe for most healthy people.
 - B. The lowest amount of a nutrient that will maintain a specified criterion of adequacy.
 - C. The average amount of a nutrient considered adequate to meet the known nutrient needs of practically all healthy people in a population.
 - D. The average amount of a nutrient considered adequate to meet the known nutrient needs of half of all healthy people in a population
- 11. Units of heat that measures the energy available in food.
 - A. Nutrients
 - B. Metabolism
 - C. Macronutrients
 - D. Calories

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- 12. A collection of chemical reactions that takes place in the body's cells. Determines the rate at which our bodies break down and use food for energy.
 - A. Calorie
 - B. Metabolism
 - C. Anabolism
 - D. Catabolism
- 13. Which of the following values represent the recommended daily intake of fiber per day
 - A. 35-40g
 - B. 25-30g
 - C. 15-20g
 - D. 5-10g
- 14. Which of the following is not a health benefit of dietary fiber?
 - A. Enhances weight control
 - B. Enhances cell differentiation
 - C. Help prevent and alleviate hemorrhoids
 - D. Help prevent diverticulitis
- 15. Which one of the following is true about Global Acute Malnutrition rates(GAM)?
 - A. GAM= SAM+MAM
 - B. GAM= SAM+HAZ
 - C. GAM= SAM+WHZ
 - D. GAM= SAM+WAZ
- 16. Which of the following is not considered a diagnostic feature of anorexia nervosa?
 - A. Fear of becoming fat
 - B. Fear of big pot belly
 - C. Significant weight loss
 - D. Depressive symptoms
- 17. Deficiencies of which of the following nutrients can lead to anaemia?
 - A. Iodine and vitamin C
 - B. Copper and Vitamin B12
 - C. Calcium and Protein
 - D. Vitamin D and zinc
- 18. Which of the following nutrient is the preformed type of Vitamin A?
 - A. Carotenoid
 - B. Beta carotene
 - C. Retinal
 - D. Lycopene
- 19. Protein-energy malnutrition (PEM) corresponds to a state where the infant's dietary intake is deficient in?
 - A. Carbohydrates
 - B. Overall calories
 - C. Proteins
 - D. Both (B) and (C)
- 20. The World Health Organization recommends zinc supplements for which groups of people?
 - A. Pregnant and lactating women
 - B. Children with severe malnutrition or diarrhoea
 - C. All children in low-income areas with high prevalence of stunting
 - D. Elderly people with low incomes

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SECTION B: SHORT ESSAY QUESTIONS

[20 MARKS]

- 1. Explain the following terms as used in nutrition and health.[4 marks]
 - i. Gluconeogenesis
 - ii. Food glycemic index
- 2. Explain four (4) clinical manifestation of iron deficiency in an individual. [4 marks]
- 3. Explain four(4) dietary methods of nutrition assessment.

[4 marks]

4. Daniel has just heard an advert from a local radio station promoting the intake of Vitamin C. Explain to him the main functions of Vitamin C in the human Body.

[4 marks]

5. Highlight four (4) sources of errors when taking anthropometric measurements in an individual. [4 marks]

SECTION C: LONG ESSAY QUESTIONS

[30MARKS]

- 1. Explain the factors affecting dietary modification in the prevention and management of disease. [10 marks]
- 2. Malnutrition is a major problem in developing countries. Explain five (5) underlying causes of malnutrition in the population. [10 marks]
- 3. Discuss the digestion and functions of proteins in the human body. [10 marks]

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