CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

NURS 121: NUTRITION AND HEALTH

STREAMS: B.Sc(NURSING) Y1S1

TIME: 2 HOURS

DAY/DATE: MONDAY 14/12/2020 2.30 P.M -4.30 P.M.

INSTRUCTIONS:

Answer All Questions

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

- 1. Each gram of fats will yield how many kilocalories
 - A. 4kcl
 - B. 6kcal
 - C. 9kcal.
 - D. 12kcal
- 2. Which of the following is a polysaccharide?
 - A. Galactose
 - B. Sucrose
 - C. Hemicellulose
 - D. Maltose
- 3. Which condition is associated with vitamin C deficiency?
 - A. Pellagra
 - B. Scurvy
 - C. Cretinism

NURS 121

- D. Beriberi
- 4. Which condition is related to total energy depletion, where individuals are alert, ravenous, and irritable, potentially causing cognitive impairment?
 - A. Marasmus
 - B. Underweight
 - C. Stunting
 - D. Kwashiorkor
- 5. The recommended protein intake for the average healthy person is
 - A. 0.8 grams per kilogram of body weight
 - B. 1.2 grams per kilogram of body weight
 - C. 2.4 grams per kilogram of body weight
 - D. 80 grams per day
- 6. Which of the following statements regarding macronutrient energy value is true?
 - A. Carbohydrate provides 9 kcal/gram consumed
 - B. Proteins provide 4 kcal/gram consumed
 - C. Fats provide 7 kcal/gram consumed
 - D. Fats provide 12 kcal/gram consumed
- 7. The nutritional needs of a patient with trauma or major surgery:
 - A. Are met by fat reserves of obese individuals
 - B. Maybe two or three times greater than normal
 - C. Can be met by intravenous fluids supplemented with vitamins and minerals
 - D. Are met by glycogen reserves
- 8. Unsaturated fat is found in which form at room temperature?
 - A. Liquid
 - B. Solid
 - C. Gas
 - D. None of the above
- 9. All of the following are sources of calories except?
 - A. Proteins
 - B. Carbohydrates
 - C. Vitamins

- D. Fats
- 10. Which group of the global population is most affected by anaemia?
 - A. Preschool children
 - B. Non-pregnant women
 - C. Pregnant women
 - D. Elderly
- 11. A healthy dietary guideline to reduce the risk of becoming overweight and obese is;
 - A. Increase the consumption of fruits and vegetables, physically inactive & eat more lean meat.
 - B. Physically active, choose lean meat & increase fruits and vegetables
 - C. Decrease fruits & vegetables, be active & eat more processed meat
 - D. Drink more sugary drinks, physically active & increase processed meats
- 12. An 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
- 13. If an individual has a positive energy balance, that person is more likely to:
 - A. Gain weight
 - B. Lose weight
 - C. Maintain weight
 - D. Develop diabetes
- 14. The UNICEF model of the causes of malnutrition identifies several levels of causes: immediate, underlying and basic. Which of the following is not one of the underlying causes in the UNICEF model?
 - A. Insufficient rainfall for agriculture
 - B. Inadequate access to food
 - C. Inadequate care for mothers and children

NURS 121

- D. Insufficient health services and an unhealthy environment
- 15. Which of the following nutrients is good for wound healing?
 - A. Selenium
 - B. Calcium
 - C. Zinc
 - D. Iron
- 16. Which of the following is an important immune-boosting nutrient?
 - A. Calcium
 - B. Vitamin C
 - C. Potassium
 - D. All of the above
- 17. Persons experiencing HIV induced diarhoea should increase their intake of
 - A. Fiber
 - B. Fluids
 - C. Fat
 - D. Proteins
- 18. Which of the following explains the importance of energy and macronutrients in newborns?
 - A. Energy requirement per unit of body weight is less than that for adults
 - B. Energy requirement per unit of body weight is similar to that for adults
 - C. Energy requirement per unit of body weight is greater than that for adults
 - D. Nutrient requirement per unit of body weight is greater than that for adults
- 19. Which of the following indices is not applicable to children?
 - A. Weight for age
 - B. Height for age
 - C. Weight for height
 - D. Height for weight
- 20. When doing diet modification, the following factors are considered except,
 - A. Physiological state
 - B. Nutrition status of the patients
 - C. Disease signs and symptoms
 - D. Disease causes

NURS 121

SECTION B: SHORT ESSAY QUESTIONS

[20 MARKS]

- 1. Explain the following concepts as used in nutrition and health [6 marks]
 - i. Food security
 - ii. Food glycemic index
 - iii. Limiting amino acid
- 2. Explain four effects of disease on the nutrition status of an individual [4 marks]
- 3. Explain four conditions that predispose populations to nutrition vulnerability in emergency situations [4 marks]
- 4. Explain four nutrition related complications common during pregnancy

[4 marks]

5. State two types of proteins in respect to their biological value [2 marks]

SECTION C: LONG ESSAY QUESTIONS

[30 MARKS]

- 1. Dietary fiber in an individual diet is crucial in maintaining good health. Explain five benefits of consuming dietary fibers [10 marks]
- 2. Healthy diets are the cornerstone of good health. Explain five characteristics of a healthy diet. [10 marks]
- 3. Malnutrition remains a major problem in developing countries. Describe the basic causes of malnutrition as stipulated in the UNICEF conceptual framework on the causes of malnutrition. [10 marks]

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