

### FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCES

#### **DEPARTMENT OF HEALTH SCIENCES**

QUALIFICATION: BACHELOR OF HUMAN NUTRITION				
QUALIFICATION CODE: 08BOHN	LEVEL: 5			
COURSE CODE: IFN521S	<b>COURSE NAME</b> : INTRODUCTION TO FOODS, NUTRITION AND HEALTH			
SESSION: JANUARY 2023	PAPER: THEORY			
<b>DURATION:</b> 3 HOURS	MARKS: 100			

SUPPLEMENTARY/ SECOND OPPORTUNITY QUESTION PAPER				
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MODERATOR:	DR LARAI AKU-AKAI			

	INSTRUCTIONS
1.	Answer ALL the questions.
2.	Write clearly and neatly.
3.	Number the answers clearly.
4.	Have a calculator

#### **PERMISSIBLE MATERIALS**

NONE

THIS MEMORANDUM CONSISTS OF 8 PAGES (Including this front page)

### SECTION A

QUESTION 1 (23 MARKS)

Evaluate the following statements in each numbered section and select the most appropriate answer from the given possibilities. Write the appropriate letter next to the number of the statement/phase in the ANSWER BOOK. (Each question carries 1 mark.)

- 1.1 The following are keyways of preventing iron deficiency anaemia in children and women of childbearing age except:
  - a. Deworming
  - b. Fortification
  - c. Promotion of breastfeeding
  - d. Promotion of vegetable consumption
- 1.2 Hidden hunger can also be referred to as:
  - a. Protein energy malnutrition
  - b. macronutrient malnutrition
  - c. vitamin A deficiency
  - d. none of the above
- 1.3 Bilateral pitting oedema is a clinical sign of:
  - a. marasmus
  - b. pregnancy induced fluid accumulation
  - c. micronutrient deficiency
  - d. none of the above
- 1.4 Which of the following categories of malnutrition results into growth retardation in children in the first 1000 days:
  - a. wasting and underweight
  - b. stunting and wasting
  - c. stunting and underweight
  - d. none of the above

- 1.5 Which of the following are not a sign of marasmus:
  - a. muscle wasting and baggy pants
  - b. moon face and brown hair
  - c. visible ribs and old man's face
  - d. monkey face and baggy pants
- 1.6 Which of the following terms refers to the balance between nutrition requirements and nutritional intake:
  - a. nutritional assessment
  - b. balance of nutrients
  - c. optimal nutritional status
  - d. none of the above
- 1.7 Which of the following ways is the standard one for determining the heigh of the child below two years of age:
  - a. Child stands on the height board supported by the mother
  - b. Child stands on the height board supported by two people
  - c. Child lies flat on the height board supported by two people
  - d. None of the above
- 1.8 Ready to use therapeutic food is used for the treatment of:
  - a. moderate acute malnutrition and severe acute malnutrition
  - b. Protein energy malnutrition and moderate acute malnutrition
  - c. micronutrient deficiencies and severe acute malnutrition
  - d. severe acute malnutrition
- 1.9 A child that has Z-scores of between -2 to -3 can be categorised as having:
  - a. normal nutritional status
  - b. severe acute malnutrition
  - c. moderate acute malnutrition
  - d. severe and moderate acute malnutrition

- 1.10 Plumpy sup is another term that refers to:
  - a. Ready to use therapeutic food
  - b. Ready to use supplementary food
  - c. Food used for treatment of severe and moderate acute malnutrition
  - d. None of the above
- 1.11 It is recommended that a patient that presents with severe acute malnutrition without medical complication is treated as:
  - a. Inpatient therapeutic care
  - b. Outpatient therapeutic care
  - c. Both as inpatient therapeutic and outpatient therapeutic care
  - d. None of the above
- 1.12 Hypothermia can also be referred to as:
  - a. Low blood sugar
  - b. High blood sugar
  - c. low body temperature
  - d. low blood sugar and low body temperature
- 1.13 Which of the following dietary assessment methods involve taking records of foods consumed on daily basis:
  - a. Food frequency questionnaire
  - b. Dietary history
  - c. observed food consumption
  - d. None of the above
- 1.14 Recumbent length can be referred to as:
  - a. Height of child when standing
  - b. Height of child when lay down
  - c. Height of child when bending
  - d. None of the above

1.15	Which of the following is an example of indirect nutrition assessment method:
	a. taking individual height and weight
	b. assessing sanitation and hygiene practices
	c. taking a 24-hour recall
	d. assessing the body mass index
1.16	Which of the following are examples of water-soluble vitamins:
	a. vitamin $B_1$ and $B_{12}$
	b. vitamin E and A
	c. vitamin B <sub>3</sub> and A
	d. vitamin K and B <sub>6</sub>
1.17	Which of the following vitamins is mostly synthesised by micro-organisms:
	a. Biotin
	b. vitamin B <sub>6</sub>
	c. vitamin B <sub>3</sub>
	d. vitamin B <sub>12</sub>
1.18	Which of the following minerals are essential in the maintenance of body fluid osmolarity:
	a. Phosphorus and magnesium
	b. Sodium and Potassium
	c. Calcium and magnesium
	d. Sodium and phosphorus
1.19	In the food guide pyramid, the various section sizes represent:
	a. the types of foods to be avoided in the diet
	b. the types of food to be consumed frequently
	c. the frequency of consumption of a given food group
	d. None of the above
1.20	A standard cup is equivalent to:
	a. 300ml
	b. 500ml
	c. 240ml
	d. 100ml

- 1.21 Which of the following food guide models uses pictorials to demonstrate recommendations for health diets:
  - a. Food pyramid
  - b. Traffic light food guide
  - c. Vegetarian food guide
  - d. Good health plate
- 1.22 Which of the following statement is true about empty kilocaloric foods:
  - a. Empty kilocaloric foods contain no nutrients
  - b. Empty kilocaloric foods contain all essential nutrients
  - c. they contain mainly energy and less of other essential nutrients such as protein, vitamins
  - d. None of the above
- 1.23 Which of the following mineral is required in large amounts during early childhood, pregnancy and lactation:
  - a. potassium
  - b. sodium
  - c. iron
  - d. iodine

QUESTION 2 (8 MARKS)

Assess the following statements and decide whether they are **true or false**. Write only the number of the question and next to it indicate your answer as **true or false** in the ANSWER BOOK. (Each question carries 1 mark)

- 2.1 Vitamin A can also be referred to as retinol and carotenoid.
- 2.2 Calcium is essential for the regulations of neural, muscular functions and blood formation.
- 2.3 Vitamins taken in excess can have adverse side effects to the body.
- 2.4 It is not recommended to increase protein and fat intake for HIV positive individuals.
- 2.5 Breastfeeding is not recommended for HIV positive mothers due to high risk of mother-baby transmission.
- 2.6 The asymptomatic phase of HIV does not involve muscle wasting.

- 2.7 Poverty and malnutrition form a vicious cycle.
- 2.8 Diet quality is determined based on the type of food consumed and not necessarily balance of nutrients.

# **SECTION B**

QUES	TION	<u>3</u> (28 MAF	RKS)		
3.1	Outline five (5) examples of water-soluble vitamins				
3.2	Explain three (3) determinants that influence what someone eats				
3.3	Outline three (4) characteristics of a healthy diet.				
3.4	Explain the steps followed in determining the height of children 2 years and above				
3.5	Define the following terms				
	3.5.1	Nutritional assessment	(2)		
	3.5.2	Calorie	(2)		
	3.5.3	Fat soluble vitamins	(2)		
	3.5.4	Basal metabolic rate	(2)		
QUESTION 4		ARKS)			
4.1	Explai	n three factors that affect basal metabolic rate	(6)		
4.2	Explai	n five (5) ways of preventing wasting in children under five years of age	(10)		
4.3	Explain how the following factors influence food choices				
	4.3.1 Social interaction				
	4.3.2 Ethnic heritage				
	4.3.3 Emotions				
4.5 Exi	4.5 Explain briefly three (6) principles of diet planning				

## SECTION C

QUESTION 5 (7 MARKS)

You are a nutritionist of Katutura Health Centre and you asked to design

 a diet that contains 0.07kg carbohydrate, 0.02kg protein and 0.012kg fat.

Calculate the total energy available from the diet (7)

**GOOD LUCK!!!**