

### **FACULTY OF HEALTH AND APPLIED SCIENCES**

#### **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: NOVEMBER 2019	PAPER: THEORY	
DURATION: 3 HOURS	MARKS: 100	

FIRST OPPORTUNITY QUESTION PAPER			
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INSTRUCTIONS	
1.	Answer ALL the questions.
2.	Write clearly and neatly.
3.	Number the answers clearly.

#### **PERMISSIBLE MATERIALS**

Scientific calculator

THIS QUESTION PAPER CONSISTS OF 5 PAGES (Including this front page)

## **SECTION A**

QUESTION 1 (10 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 Which of the following nutrient is a macronutrient:
  - A. Magnesium
  - B. Folic acid
  - C. Beta-carotene
  - D. Glucose
- 1.2 Food composition databases can be used to:
  - A. Calculate total nutrient intake
  - B. Assess the toxicity of food
  - C. Define nutrient needs in our body
  - D. Identify non-essential nutrients
- 1.3 At what stage does nutrition support have an impact on people living with HIV:
  - A. In the early stage of HIV
  - B. In the late stage of HIV
  - C. At all stages
  - D. None of the above
- 1.4 Which of the following indicators of Sustainable Development Goals (SDG) is LESS relevant to Nutrition:
  - A. Poverty
  - B. Healthy lives
  - C. Infrastructure
  - D. Hunger and malnutrition
- 1.5 An index of a person's weight with height is called:
  - A. Ideal body Weight Index
  - B. Body Mass Index
  - C. Weight and Height Ratio
  - D. Desirable body weight Index
- 1.6 When comparing different food composition databases, you can observe that:
  - A. They all contain the same number of data
  - B. They list the same food items
  - C. They reflect national eating patterns
  - D. They provide complete food component data

1.7	According to WHO, Less than	of salt per day may help to prevent hypertension and
	reduces the risk of heart disease i	in adults:

- A. 5 g
- B. 10 g
- C. 5 %
- D. 20%
- 1.8 Ndeshi is a healthy, active adult female who weighs 65 kg. According to the WHO, what would be her Recommended Dietary Allowance (RDA) for protein intake:
  - A. 38 grams
  - B. 52 grams
  - C. 124 grams
  - D. 56 grams
- 1.9 Three (3) pieces of Chocolate-Flavoured wafer sticks contains 22 g of CHO, 3.8 g fats and 1.5 g of protein. What is the total energy from fat:
  - A. 34.2 kcal
  - B. 15.2 kcal
  - C. 27.1 kcal
  - D. 44 kcal
- 1.10 Which of the following is a trace Mineral:
  - A. Sodium
  - B. Iodine
  - C. Calcium
  - D. Magnesium

QUESTION 2 (10 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 Fat soluble vitamins provide energy.
- 2.2 Marasmus is caused by a lack of protein in the diet.
- 2.3 Non-heme iron needs to be chemically "reduced" from Fe3<sup>+</sup> (ferric iron) to Fe2<sup>+</sup> (Ferrous iron), e.g. by vitamin C, contained in fruits, to be absorbed.
- 2.4 Low height for age measures Stunting while the low weight for height measures Wasting.
- 2.5 Rickets is a nutritional disorder caused a lack of vitamin D in children.
- 2.6 Pellagra is a nutritional disorder caused by a deficiency of Riboflavin (vitamin B<sub>2</sub>).

- 2.7 In an HIV positive child who is symptomatic and losing weight, energy intake should increase by 40- 70 % more than a healthy child.
- 2.8 A person with constipation should eat more nutrient-dense foods.
- 2.9 The typical sources of calcium include yoghurt, milk and dairy products.
- 2.10 There are only four food groups in Namibia according to the Food & Nutrition Guidelines.

# **SECTION B**

QUES	TION	<u>3</u> (21 MAR	KS)
3.1	1 Explain the following terms and concepts:		
	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5	Micronutrient deficiencies Energy density Monosaccharides Saturated fats Malnutrition	(2) (2) (2) (2) (2)
3.2		pes, Sweet potatoes and Cassava are starchy foods which need to be cooked e eating. Explain why it is important to cook potatoes?	(3)
3.3		$ri$ is a nutritional disorder caused by a lack of vitamin $B_1$ . List and explain any (3) forms of <i>beriber</i> i?	(6)
3.4		n is macronutrient which the body needs in large quantity. According to WHC pe two (2) theoretical methods for estimating protein needs?	), (2)
QUES	STION	<u>4</u> (23 MAR	KS)
4.1	Eddy is a 21 year old boy who is currently studying a Bachelor of Accounting at NUS His usual diet provides an average intake of 304.5 grams of carbohydrate, 101.5 grants of protein, and 45 grams of fat.		
	4.1.1	How many kcal does he consume?	(4)
	4.1.2	What percentages of his kcal are consumed from each macronutrient?	(3)

		macronutrients?	(2)
4.2		a 19 old boy who came to the hospital complaining of bleeding gums, ned teeth and slow wound healing. He weighs 50 kg and his height is 169 cm.	
	4.2.1	Calculate Job's BMI?	(3)
	4.2.2	Determine the nutritional status of Job?	(1)
	4.2.3	What micronutrient deficiency is he suffering from, how can it be treated and what type of food does he need to consume?	(3)
4.3	Discus	s the importance of Nutrition Assessment.	(7)
		SECTION C	
QUES	STION	<u>5</u> (18 MAR	KS)
5.1	Descri	be five (5) social functions of food?	(5)
5.2	Defen	d the statement that no single diet can be appropriate for every human being?	(3)
5.3	Fats se	erve many functions in the body. Discuss the roles of fats in the body and diet?	(4)
5.4	under	the priority for population dietary change, there is a need for a greater standing of factors that may affect food choices. Elaborate on how biological minants influence what we eat, giving examples of each.	(6)
QUES	STION	<u>6</u> (18 MAR	KS)
6.1		entiate between <i>Kwashiorkor</i> and <i>Marasmus</i> considering their definitions, and the main causes.	(10)
6.2	well re are du	esential role of nutrition in the enhancement of the quality and span of life is ecognized. However, many Namibians suffer from nutritional disorders that e to inadequate food intake, both in terms of quality and quantity. Discuss oes of food groups in Namibia and their nutritional importance?	(8)

4.1.3 Is this diet in line with the recommended dietary guidelines of

## GOOD LUCK!!!