

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF AGRICULTURAL AND FOOD SCENCES

FIRST SEMESTER FIRST YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN FOOD SECURITY 2020/2021 ACADEMIC YEAR

COURSE CODE: AAB 2103

COURSE TITLE: Principles Of Human Nutrition

EXAM VENUE: STREAM: (BSc. Food Security)

DATE: EXAM SESSION:

TIME: 2HOURS

Instructions:

- 1. Answer ALL questions in Section A (compulsory) and ANY TWO questions in Section B
- 2. Candidates are advised not to write on the question paper
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room

SECTION A [30 MARKS]

Answer ALL questions in this section

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a.	Nutrition -	[1 mark]
b.	Nutrients	[1 mark]
c.	Fortified food	[1 mark]

- c. Fortified food2. Outline three functional categories of nutrients.
- 2. Outline three functional categories of nutrients.
 3. List three functions of water in the body.
 [3 marks]
 [3 marks]
- 4. Distinguish between fats and oils, and name one health risk associated with increased fat intake.
 - [3 marks]
- 5. Outline three disorders associated with protein deficiency in humans. [3 marks]
- 6. Give any three basic characteristics of vitamins. [3 marks]
- 7. Phosphorus is said to have more functions than any other mineral in the body. State any three of these functions. [3 marks]
- 8. Differentiate between Estimated Average Requirements (EARs) and Recommended daily Allowances (RDAs). [4 marks]
- 9. Give two energy-generating pathways in the body. [2 marks]
- 10. Outline three disorders associated with excessive intake of alcohol. [3 marks]

SECTION B [40 MARKS]

Answer ANY TWO questions from this section

11. Discuss the digestive processes of starch and protein in the human body.	[20 marks]
12. Describe the various methods of protein quality evaluation.	[20 marks]
13. Give an account of the factors influencing food choices in humans.	[20 marks]
14. Discuss the role played by food additives in human nutrition.	[20 marks]