



NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY

**Faculty of Health, Natural
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QUALIFICATION : BACHELOR OF ENVIRONMENTAL HEALTH SCIENCES	
QUALIFICATION CODE: 08BOHS	LEVEL: 6
COURSE: FOOD AND MEAT HYGIENE 2B	COURSE CODE: FMH612S
DATE: JANUARY 2024	SESSION: 2
DURATION: 3 HOURS	MARKS: 100

SECOND OPPORTUNITY: SUPPLEMENTARY EXAMINATION QUESTION PAPER

EXAMINER: *MR IMMANUEL ZERIAPI*

MODERATOR: *MR JOSHUA HIDINWA*

INSTRUCTIONS:

1. Answer all questions on the separate answer sheet.
2. Please write neatly and legibly.
3. Do not use the left side margin of the exam paper. This must be allowed for the examiner.
4. No books, notes and other additional aids are allowed.
5. Mark all answers clearly with their respective question numbers.

PERMISSIBLE MATERIALS:

1. None

ATTACHEMENTS

1. None
2. This paper consists of 4 pages including this front pages.

SECTION A

(30 MARKS)

QUESTION 1

[10 MARKS]

- 1.0 Indicate if the below statements are true or false by writing "True" or "False" next to the corresponding question in your answer book.
- 1.1 Anaemia is due to lack of protein in diet, leading to failure of neural development. (1)
- 1.2 Herbicide tolerance is scientifically proof to be time-consuming and expensive process. (1)
- 1.3 Nutrient deficiency diseases occur when there is an absence of nutrients which are essential for growth and health. (1)
- 1.4 Microbiologist continues sampling until the whole consignment is offloaded from the ship during pre-shipment inspection of foodstuffs. (1)
- 1.5 Undernourishment is most often due to enough high-quality food available to eat. (1)
- 1.6 Deficiency diseases are diseases which occur due to lack of nutrients. (1)
- 1.7 Essential Amino acids cannot be created and are only obtain through food. (1)
- 1.8 Goitor is caused by lack of iodine during pregnancy. (1)
- 1.9 There are claims that many children in Africa have developed life-threatening allergies to peanuts and other foods. (1)
- 1.10 Combining several sources of proteins allow one to obtain complete coverage of all essential Amino acids. (1)

QUESTION 2**[10 MARKS]**

2.0 Match the term in Column A with the correct description/definition in Column B. (10)

COLUMN A	COLUMN B
2.1 Foodstuff, Cosmetics and Disinfectant Act No 54 of 1972	A. Provided to protect food from contamination.
2.2 Carbohydrate	B. Consist of simple and complex carbohydrates.
2.3 Potential environmental impacts	C. It is softening and weakening of bones from release of calcium from bones.
2.4 Ethics	D. It provides cells with energy while amino acid provide cells with building material for growth and maintenance.
2.5 Marasmus	E. Violation of natural organisms' intrinsic values.
2.6 Ceilings	F. Cause of 49% of the 10.4 million deaths occurring in children younger than 5 years in developing countries.
2.7 Rickets	G Symptoms includes fatigue, irritability, shortness of breath, constant headache.
2.8 Malnutrition	H. It is including unintended transfer of transgenes through cross-pollination, unknown effects on other organisms (e.g., soil microbes), and loss of flora and fauna biodiversity.
2.9 Anaemia	I. Results in poor wound healing, bone deformities, dwarfism, hyperpigmentation, fetal abnormalities, immune system failure.
2.10 Fats	J. Demand from owner or person in charge of the premise any information.

QUESTION 3**[10 MARKS]**

3.0 Define the following terms: (10)

3.1 Food poisoning (5)

3.2 Hazards Analysis Critical Control Point Plan (5)

SECTION B

(25 MARKS)

QUESTION 4

[25 MARKS]

- 4.1 Recall Six (6) preventative measures to control pest at the Dairy plant. (6)
- 4.2 Name Six (6) bacteria which is known as most causative agents for food poisoning. (6)
- 4.3 Elaborate on the important of implementing Food Safety Management System at all registered food establishments in Namibia. (13)

SECTION C

(45 MARKS)

QUESTION 5

[20 MARKS]

- 5.0 Briefly explain the purpose of Food Safety as stipulated under Namibia Food Safety Policy of 2015. (20)

QUESTION 6

[25 MARKS]

- 6.0 Discuss the World Health Organisation Golden Rules for Food Safety preparation. (25)

GOOD LUCK