

GWANDA STATE UNIVERSITY



FACULTY OF LIFE SCIENCES

DEPARTMENT OF ANIMAL SCIENCE

BACHELOR OF SCIENCE HONOURS DEGREE IN ANIMAL SCIENCE

Food Safety and Food Quality Management

LAS 4104

First Semester Final Examination

February 2022

This examination paper consists of 3 pages

Time Allowed: 3 hours
Total Marks: 100
Special Requirements: None
Examiner's Name: Dr B. Moyo

INSTRUCTIONS.

1. Answer **ALL** questions in Section A.
2. Answer any **TWO** Questions in Section B. Each question in this section will carry 20 marks.

MARK ALLOCATION

QUESTION	MARKS
SECTION A	60
SECTION B	40
TOTAL ATTAINABLE MARKS	100

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SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION 1

- a) State the principal methods of preservation food. [7]
- b) State issues addressed by Good Manufacturing Practices (GMP). [6]
- c) Explain factors affecting food spoilage. [7]

QUESTION 2

- a) What do you understand by the term “food safety”? [3]
- b) What is the importance of food safety? [5]
- c) Discuss six preliminary steps of HACCP. [12]

QUESTION 3

Write detailed notes on the role of four major elements involved in food safety Management. [20]

SECTION B. ANSWER ANY TWO QUESTIONS

QUESTION 4

Describe how as a manager you would implement a Hazard Analysis Critical Control Point (HACCP) programme, including the pre-requisite programmes in a new meat processing plant. [20]

QUESTION 5

Discuss the two principles used in food preservation and how they can be applied to meat products. Support your answer with examples. [20]

Question 6

- a) The main focus of Total Quality Management was and is continuous quality improvement in the areas of product or service, employer-employee relations, and consumer-business relations. State 10 of 14 Deming's Principles. **[10]**
- b) Discuss the Food Safety Initiatives under the Following areas:
- (i) Global Food Safety Initiative
[3]
 - (ii) HACCP
[3]
 - (iii) ISO 9001 (the International Organization for Standardization's standard for quality management systems, currently in the 2008 version) **[2]**
 - (iv) *6 Sigma*.
[2]

END OF EXAMINATION