

This examination paper consists of 3 pages

3 hours

100

Time Allowed:

Total Marks:

Special Requirements: None

Examiner's Name: Dr S. Moyo

INSTRUCTIONS

- 1. Answer all questions in Section A
- 2. Answer only Two questions in Section B

MARK ALLOCATION

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

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SECTION A: ANSWER <u>ALL</u> QUESTIONS IN THIS SECTION

QUESTION 1

- a) Explain the following terms as they are used in Animal Product Processing:
- i.Exsanguination;[2]ii.Hypertrophy;[2]iii.Myoglobin;[2]iv.Rigor mortis;[2]v.Hyperplasia.[2]

b) List any three causes of spoilage in animal flesh.

- [3]
- c) Discuss how pale, soft and exudative (PSE) and dark Dry firm develops in meat.[6]
- d) Packaging in animal products and processing is imperative. Why?[3]
- e) Describe the manufacturing process of leather.
 - [10]
- f) List three important attributes that enable industrial processing of eggs possible.[3]

QUESTION 2

a)	Explain how the Haugh unit is determined in egg industry.	[5]		
b)	b) What is the purpose of a Hazard Analysis Critical Control Point (HACCP) system			
	in the food processing plant?	[5]		

QUESTION 3.

Discuss the two religious slaughter methods

i. Haalal [5]ii. Kosher/Shechita). [5]

QUESTION 4

Dark, firm and dry DFD meat is generally considered unattractive to the consumer. List any 5 causes of DFD that should be avoided in meat industry. [5]

SECTION B: ANSWER ANY TWO QUESTIONS IN THIS SECTION **QUESTION 5**

Write briefly on the significance of the following in milk industry:

i.	Somatic cell count;	[5]
ii.	Total bacteria count;	[8]
iii.	Residues in milk.	[7]

QUESTION 6

a) Meat colour is significant to consumer acceptance of products. Discuss factors that affect meat colour and how discolouration can be prevented. [20]

QUESTION 7

a)	Write	detailed notes on the following topics:	
	i.	Pasteurisation;	[3]
	ii.	Sterilisation;	[3]
	iii.	Homogenised milk.	[4]
b) Describe how Ultimate pH influences meat quality.		[10]	

END OF EXAMINATION