# UNIVERSITY OF SWAZILAND Faculty of Health Sciences

## DEGREE IN ENVIRONMENTAL HEALTH RE-SIT EXAMINATION PAPER 2018

TITLE OF PAPER

**MEAT HYGIENE** 

**COURSE CODE** 

**EHS 228** 

**DURATION** 

2 HOURS

**MARKS** 

100

:

INSTRUCTIONS

**READ THE QUESTIONS & INSTRUCTIONS** 

**CAREFULLY** 

ANSWER ALL FOUR (4) QUESTIONS

EACH QUESTION CARRIES 25 MARKS.

NO PAPER SHOULD BE BROUGHT INTO THE

EXAMINATION ROOM.

: WRITE NEATLY & CLEARLY

BEGIN EACH QUESTION ON A SEPARATE

SHEET OF PAPER.

DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR.

#### EHS 228 RE-SIT EXAMINATION PAPER 2018

## Question 1

	•		
a)	What are haemal lymph nodes?	[4]	
b)	How do you ensure that the animal before slaughter has adequate glycogen		
·	reserves?	[3]	
c)	Why is sufficient glycogen in the muscles of an animal before slaughter		
	important?	[3]	
d)	How would you estimate the age of cattle by using the appearance incisor	s teeth'	
		[4]	
e)	How does diet influence the color of fat in food animals?	[5]	
f)	When you slaughter a whale fish in water, the fat drains out. Why is that?		
g)	Using good examples, explain why marbled meat smells and taste good?	[4]	
	[25 M	[arks]	
Quest		- 47	
	How is haemoglobin different from myoglobin?	[4]	
b)	During the slaughtering of cattle in the abattoir, how is the knife and equi	•	
-1	sterilized?	[2]	
C)	What do you understand by endomysium, perimysium and epimysium in		
47	muscle formation in meat?	[6]	
	Animals before the slaughtering process should not be stressed. Explain the process of and food shoorn in the small intestings		
e)	Describe the process of and food absorption in the small intestines.	[8]	
	[25]1	[arks]	
Quest	ion 3		
a)	Why is it necessary to stun food animals prior to their slaughter? [4]		
b)	Why is the fat of pigs softer than that of sheep or goat? [4]		
c)	Name and locate all the salivary glands in cattle. [6]		
d)	Explain why cattle are seen chewing when resting during the day. [4]		
e)	Why starving cattle would accumulate fat in the liver? [5]		
f)	In ruminants which stomach is known as the 'bible'? [2]		
,	£ 3	[arks]	
	[-0.33		

### Question 4

- Abattoirs are considered to be very important in meat hygiene. Explain this.[15] Explain the measures that are required to ensure that meat after slaughter is kept safe and does not spoilage quickly. [10] a). b) [10] [25 Marks]