# UNIVERSITY OF SWAZILAND Faculty of Health Sciences

# DEGREE IN ENVIRONMENTAL HEALTH RE-SIT EXAMINATION PAPER 2019

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 2019

## Question 1

a)	What are haemal lymph nodes?		[4]
b)	How do you ensure that the animal before slaughter has adequate g reserves?	lycoger	ı [3]
c)	Why is sufficient glycogen in the muscles of an animal before slauge	ghter	
ĺ	important?		[3]
d)	How would you estimate the age of cattle by using the appearance	incisors	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 i		[2]
g)	Using good examples, explain why marbled meat smells and taste	-	[4]
		[25 M	arks
Quest	ion 2		
_	How is haemoglobin different from myoglobin?		[4]
b)	During the slaughtering of cattle in the abattoir, how is the knife an	d equip	ment
	sterilized?		[2]
c)	What do you understand by endomysium, perimysium and epimysi	um in t	he
	muscle formation in meat?		[6]
	Animals before the slaughtering process should not be stressed. Ex		
e)	Describe the process of and food absorption in the small intestines.		[8]
		[25 M	[arks]
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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.		
e)	Why starving cattle would accumulate fat in the liver?	[5]	
f)	In ruminants which stomach is known as the 'bible'?	[2]	
		[25 M	arksj
Ouest	tion 4		

- a).
- 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 b) [10] [25 Marks] safe and does not spoilage quickly.