



UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

DEGREE IN ENVIRONMENTAL HEALTH
SUPPLEMENTARY EXAMINATION PAPER 2017

- TITLE OF PAPER** : MEAT HYGIENE
- COURSE CODE** : EHM 304
- 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.

Question 1

- a) What are haemal lymph nodes? [5]
 - b) How do you ensure that the animal before slaughter has adequate glycogen reserves? [5]
 - c) Why is sufficient glycogen in the muscles of an animal before slaughter important? [5]
 - d) Explain the factors that influence the onset of rigor mortis in meat [5]
 - e) How would you estimate the age of cattle by using the bones? [5]
- [25 Marks]**

Question 2

- a) Give at least two drainage areas for the following lymph nodes in cattle.
 - Parotid
 - Mediastinals
 - Portals
 - Mesenteric
 - Popliteal
 - Renal
 - Prescapular
 - Supramammary
 - Superficial inguinal
 - Submaxillary

[20]
 - b) In food animal's species, the fats consistency, and color are different for different animals. Using appropriate examples, explain why that is so. [5]
- [25 Marks]**

Question 3

- a) Cattle meat is said to be red and poultry meat white. What is responsible for this difference? [5]
 - b) Why is it necessary to stun food animals prior to their slaughter? [5]
 - c) Why is the fat of pigs softer than that of sheep or goat? [5]
 - d) Name and locate the salivary glands in cattle. [6]
 - e) Explain why cattle are seen chewing when resting during the day. [4]
- [25 Marks]**

Question 4

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