

TECHNICAL UNIVERSITY OF MOMBASA Faculty of Applied & Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

DIPLOMA IN ENVIRONMENTAL AND HEALTH SCIENCES (DEHS 014M)

APH 2103: ANATOMY & PHYSIOLOGY OF FOOD ANIMALS

SPECIAL/SUPPLEMENTARY EXAMINATIONS

SERIES: FEBRUARY 2015

TIME: 2 HOURS

INSTRUCTIONS:

- This paper consists of **FIVE** questions.
- Answer question **ONE** (**Compulsory**) in Section **A** and any other **TWO** questions in **B**. **This paper consists of Two printed pages.**

SECTION A (Compulsory) 30 Marks

QUESTION 1

a) Define the following terms as used in anatomy and physiology of food animals:

i)	Anatomy	(1 mark)
ii)	Physiology	(1 mark)
iii)	Heifer	(1 mark)
iv)	Rum	(1 mark)
v)	Bull	(1 mark)

b) Compare the carcase of a goat to that of a sheep.

(5 marks)

- c) You have been posted to an area where cases of dog meat have been reported as a Public Health Officer how would you differentiate between the carcase of a dog to that of a goat. (5 marks)
- d) Compare the liver of a horse to that of a bovine.

(5 marks)

- e) Lymph nodes are named according to the location, name **FIVE** lymph nodes found in a bovine carcase. (5 marks)
- f) Compare the carcase of a cat to that of a rabbit.

(5 marks)

SECTION B (Answer any TWO questions)

QUESTION 2

a) List the **FIVE** regions that are found in the vertebral column of food animals.

(5 marks)

b) Briefly explain **FIVE** factor to be considered when siting a slaughter house.

(10 marks)

QUESTION 3

a) Differentiate the tongue of an ox to that of a horse.

(5 marks)

b) You have been called in a court of law in Kenya to give an expert opinion over a case where a butcher is accused of slaughtering a stolen bull, the butcher is wishing that he slaughter a cow sold to him by a person he knows you as an expert in meat inspection (comparative anatomy of food animals). What do you have to say to this honourable court. (10 marks)

QUESTION 4

Briefly explain the various methods on how a meat inspector can estimate the age of a food animal.

(15 marks)

QUESTION 5

a) Compare the weight of an ox to that of a pig.	(5 marks)	
b) Compare the livers of the following food animals:		
i) Ox liver	(2 marks)	
ii) Pig liver	(2 marks)	
iii) Horse liver	(2 marks)	
c) Compare the lungs of the following food animals:		
i) Ox lung.	(3 marks)	
ii) Pig lung	(3 marks)	