



UNIVERSITY OF SWAZILAND
Faculty of Health Sciences
Department of Environmental Health Science

DEGREE IN ENVIRONMENTAL HEALTH AND FOOD
SCIENCE

SUPPLEMENTARY EXAMINATION PAPER 2016

TITLE OF PAPER : MEAT PATHOLOGY

COURSE CODE : EHM 409

DURATION : 2 HOURS

MARKS : 100

INSTRUCTIONS :

- : READ THE QUESTIONS & INSTRUCTIONS CAREFULLY
- : ANSWER **ANY FOUR** QUESTIONS.
- : EACH QUESTION **CARRIES 25** MARKS.
- : 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 ONE

- (a) Define the following terms
- | | | |
|--------|--------------------|----------|
| (i) | Ecchymoses | [1 Mark] |
| (ii) | Catarrhal rhinitis | [1 Mark] |
| (iii) | Commensalism | [1 Mark] |
| (iv) | $D_{60} = 15$ | [1 Mark] |
| (v) | Laminitis | [1 Mark] |
| (vi) | Purulent | [1 Mark] |
| (vii) | Orchitis | [1 Mark] |
| (viii) | Dyspnoea | [1 Mark] |
| (ix) | Emphysema | [1 Mark] |
| (x) | Suppurative | [1 Mark] |
- (b) How would you differentiate Swine Influenza from African Swine fever
[15 Marks]
[25 marks]

QUESTION TWO

The following situation, describes an outbreak of disease in Big Bend – Swaziland and an account of some observations with respect to this outbreak as below;

- Highly fatal virus disease [zoonotic]
- All mammals are susceptible though primarily affect carnivores
- Man is infected through rabid dog bite
- Symptoms seen are associated with the nervous system which are manifested as motor irritation and paralysis
- Although domestic dog is the chief transmitter of disease to man, domestic cats, wild and feral carnivores [including jackals, foxes and wolves] and bats [especially vampires, but also insect and fruit-eating bats] can be infected and transmit disease.

Identify the disease, elaborate on causative agents, mode of transmission and symptoms
[25 Marks]

QUESTION THREE

- (a) Given the following analogy: During the outbreak of unknown disease one observes the following,
- It is acute, highly contagious viral disease,
 - predominantly of cattle but will affect all cloven footed animals including pigs.
 - It is manifested by initial fever and lesions on the mouth and the feet.
 - The virus is highly resistant to freezing and even to some strong disinfectants.
- Suggest the name of disease, distribution in terms of occurrence, causative agents, transmission, and Symptoms
[25 Marks]

QUESTION FOUR

- (a) Define the terms zoonosis, emphysema and suppurative [3 Marks]
- (b) Which one of the listed diseases is Zoonotic
- (i) Black leg (Blackquarter),
- (ii) Brucellosis (Contagious Abortion) [2 Marks]
- (c) Give an account of the zoonotic disease you have chosen in cattle, detailing causative agent, mode of transmission, symptoms & possible control. [20 Marks]
- [25 marks]

QUESTION FIVE

Discuss the causative agents, transmission and symptoms of Avian influenza in animals [25 Marks]