



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

DEGREE IN ENVIRONMENTAL HEALTH SCIENCE
SUPPLEMENTARY EXAMINATION PAPER 2018

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) Petechia | [1 Mark] |

(b) How would you differentiate Swine Influenza from Swine fever **15 Marks]**
[Total: 25 marks]

QUESTION TWO

The following situation, describes an outbreak of disease in Big Bend – Swaziland, and an account of some observations are listed 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
[Total: 25 Marks]

QUESTION THREE

(a) 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
[Total: 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 (b), detailing causative agent, mode of transmission, symptoms & possible control. [20 Marks]
- [Total: 25 marks]

QUESTION FIVE

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