

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

#### DEGREE IN ENVIRONMENTAL HEALTH SCIENCE

#### **SUPPLEMENTARY EXAMINATION PAPER 2019**

TITLE OF PAPER

MEAT PATHOLOGY

**COURSE CODE** 

EHM 409

**DURATION** 

2 HOURS

MARKS

100

**INSTRUCTIONS** 

READ THE QUESTIONS & INSTRUCTIONS

**CAREFULLY** 

: ANSWER <u>ANY FOUR</u> QUESTIONS.

EACH QUESTION <u>CARRIES 25</u> 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) De | efine the following terms |          |
|--------|---------------------------|----------|
| (i)    | Ecchymoses                | [1 Mark] |
| (ii)   | ) Catarrhal rhinitis      | [1 Mark] |
| (iii   | i) Commensalism           | [1 Mark] |
| (iv    | $D_{60} = 15$             | [1 Mark] |
| (v)    | ) Laminitis               | [1 Mark] |
| (vi    | i) 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]