



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

DEGREE IN ENVIRONMENTAL HEALTH SCIENCE

**RE - SIT EXAMINATION PAPER 2021**

TITLE OF PAPER : MEAT PATHOLOGY

COURSE CODE : EHS 426

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)   | Agglutination      | [1 Mark] |
| (v)    | Attenuated         | [1 Mark] |
| (vi)   | Purulent           | [1 Mark] |
| (vii)  | Haemaglobinuria    | [1 Mark] |
| (viii) | Hyperaemia         | [1 Mark] |
| (ix)   | Necrosis           | [1 Mark] |
| (x)    | Petechia           | [1 Mark] |

(b) How would you differentiate Swine Influenza from Swine Erysipelas.

**15 Marks]**

**[Total: 25 marks]**

### QUESTION TWO

The following situation, describes an outbreak of disease in Big Bend – Eswatini, 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 an 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 the 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]