



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

DEGREE IN ENVIRONMENTAL HEALTH SCIENCE  
FINAL 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 (4) 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) What are the major pathology signs of Actinobacillosis in sheep? [5 Marks]  
(b) What are the clinical signs of Actinobacillus? [5 Marks]  
(c) Define the following terms
- (i) Commensalism [1 Mark]
  - (ii) Osteomyelitis [1 Mark]
  - (iii) Oedematous [1 Mark]
  - (iv) Dyspnoea [1 Mark]
  - (v) Suppurative [1 Mark]
  - (vi) Pica [1 Mark]
  - (vii) Nephritis [1 Mark]
  - (viii) Hyperaemia [1 Mark]
  - (ix) Necrosis [1 Mark]
  - (x) Encephalitic syndrome [1 Mark]
  - (xi) Emphysema [1 Mark]
  - (xii) Encephalitis [1 Mark]
  - (xiii) Attenuated [1 Mark]
  - (xiv) Orchitis [1 Mark]
  - (xv) Phygoocyte [1 Mark]

[Total 25 marks]

**QUESTION TWO**

- (a) Briefly discuss why Anthrax is associated with high fatality rate. [10 Marks]  
(b) Briefly outline the symptoms of Black Leg in cattle. [10 Marks]  
(c) What are the symptoms of Black Leg in sheep? [5 Marks]

[Total 25 marks]

**QUESTION THREE**

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

[Total 25 marks]

**QUESTION FOUR**

- (a) Why does Hog Cholera results into 90% mortality rate? [5 Marks]  
(b) Briefly outline the how African swine fever is transmitted. [10 Marks]  
(c) What are the ante-mortem and post - mortem signs of Fowl Pest? [10 Marks]

[Total 25 marks]

**QUESTION FIVE**

- (a) Write brief notes (causative agent, transmission & symptoms) about Avian influenza. [15 Marks]  
(b) Tuberculosis is one of the most important diseases of man and animal in Eswatini. Describe the causative agent of tuberculosis in terms of size, shape, generation time and clearly elaborate on specific infectious agents (species) that affect Human, Bovine, Poultry and Cold-blooded animals [10 Marks]

[Total 25 marks]