



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

DEGREE IN ENVIRONMENTAL HEALTH SCIENCE

FINAL 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) Encephalitic syndrome | [1 Mark]  |
| (ii) Commensalism         | [1 Mark]  |
| (iii) Ecchymoses          | [1 Mark]  |
| (iv) Mania                | [1 Mark]  |
| (v) Suppurative           | [1 Mark]  |
| (vi) Emphysema            | [1 Marks] |
| (vii) Fomites             | [1 Mark]  |
- (b) Briefly discuss what can make an inapparent infection become apparent infection.  
[8 Marks]
- (c) Discuss the major similarities between Anthrax and Blackleg disease.  
[10 Marks]
- [Total: 25 Marks]

### QUESTION TWO

- (a) What are the symptoms of septicaemic syndrome of Salmonellosis in animals?  
[15 Marks]
- (b) Outline the procedure or approach and methods used to determine and confirm for causative agents of Salmonellosis.  
[6 Marks]
- (c) Why does Johne's disease lead to enlargement and oedematous of mesenteric lymph nodes  
[4 Marks]
- [Total: 25 Marks]

### QUESTION THREE

- (a) Discuss Foot and Mouth disease with respect to;
- |                         |           |
|-------------------------|-----------|
| (i) Causative agents;   | [3 Marks] |
| (ii) Species affected;  | [2 Marks] |
| (iii) Transmission;     | [5 Marks] |
| (iv) Treatment or cure; | [6 Marks] |
- (b) Is there any cure for Foot and Mouth Disease?  
[1 Mark]
- (i) Briefly discuss the treatment of animal with Foot and Mouth Disease?  
[4 Marks]
- (c) Briefly discuss the characteristics of causative agent for Actinobacillosis?  
[4 Marks]
- [Total: 25 marks]

### QUESTION FOUR

- (a) How would you differentiate Bacillary white diarrhea from Fowl Typhoid?  
[5 Marks]
- (b) Write brief notes about Coccidiosis in Poultry  
[10 Marks]
- (c) When carrying out post mortem, explain how carcasses that died from Swine fever can be differentiated from those that died from African Swine fever  
[10 Marks]
- [Total: 25 marks]

**QUESTION FIVE**

- (a) Briefly outline the approach that is used to identify the causative agent for Tuberculosis. **[3 Marks]**
- (b) Discuss the symptoms, transmission and pathology of Tuberculosis in livestock. **[20 Marks]**
- (c) Under which Tuberculosis condition is the entire carcass, organs and viscera seized and condemned. **[2 Marks]**

**[Total: 25 Marks]**