



UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

DIPLOMA IN ENVIRONMENTAL HEALTH
FINAL EXAMINATION PAPER 2012

- TITLE OF PAPER** : MEAT PATHOLOGY
- COURSE CODE** : EHS 209
- 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 1

Discuss the causative agents, transmission and symptoms of Salmonellosis in animals.

[25 Marks]

Question 2

(a) Define the following terms

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|----------------------------|----------|
| (i) Broilers | [1 mark] |
| (ii) Oedema | [1 Mark] |
| (iii) Capons | [1 Mark] |
| (iv) Pullet | [1 Mark] |
| (v) Agglutination | [1 Mark] |
| (vi) Arthritis | [1 Mark] |
| (vii) Attenuated | [1 Mark] |
| (viii) Coccoid | [1 Mark] |
| (ix) Encephalitic syndrome | [1 Mark] |
| (x) Exudate | [1 Mark] |

(b) Compare and contrast between Actinobacillosis and Actinomycosi. [15 Marks]

Question 3

The following situation, describes an outbreak of disease in Big Bend – Swaziland and an account of some observations with respect to this outbreak as 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.

[25 Marks]

Question 4

(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 cattle, detailing causative agent, mode of transmission, symptoms & possible control. [20 Marks]

Questions 5

(a) Write brief notes on coccidiosis in poultry. [15 Marks]

(b) Tuberculosis is one of the most important diseases of man and animal in Swaziland.

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]