

UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

DIPLOMA IN ENVIRONMENTAL HEALTH

SUPPLEMENTARY EXAMINATION PAPER 2007.

TITLE OF PAPER : MEAT PATHOLOGY & SAFETY

COURSE CODE : EHS 201

DURATION : 3 HOURS

MARKS : 100

INSTRUCTIONS :

- : ANSWER ALL FIVE QUESTIONS
- : EACH QUESTION CARRY 20 MARKS.
- : NO PAPER SHOULD BE BROUGHT INTO NOR OUT OF THE EXAMINATION ROOM.
- : BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER.

DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR.

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Question 1

- a) Discuss the post-mortem lesions of fascioliasis (in sheep & cattle). [15 Marks]
- b) Explain the measures to be adopted in the control of fascioliasis in cattle and sheep. [5 Marks]

Question 2

- a) Which organs may be infested with *Cysticercus bovis*? [5 Marks]
- b) what are predilection sites for *Cysticercus cellulose*? [6 Marks]
- c) During cattle meat examination you find two cysts on the tongue of carcase 1, and you find two cysts, one in the diaphragm and another one in the masseter muscles on carcase 2. What will be your judgement of the two carcasses? [6 Marks]
- d) During pig meat examination you find two cysts on the tongue of carcase 1, and you find two cysts, one in the diaphragm and another one in the masseter muscles on carcase 2. What will be your judgement of the two carcasses? [3 Marks]

Question 3

During meat inspection, you observe that the carcass is affected with Bovine tuberculosis. If a carcass shows signs of bovine tuberculosis, you condemn the affected organs. You can only reject the whole carcass in the case of tuberculosis with emaciation or generalized tuberculosis.

When is Bovine tuberculosis generalized? [20 Marks]

Question 4

Define the following terms in relation to Bovine tuberculosis.

- a) Cellular reaction [6 Marks]
- b) Exudative reaction [4 Marks]
- c) Caseation [2 Marks]
- d) Calcification [2 Marks]
- e) Active infection [2 Marks]
- f) Inactive infection [2 Marks]
- g) Miliary tuberculosis [2 Marks]

Question 5

Some conditions such as stress are part of the predisposal factors to salmonellosis in cattle.
How is this so, explain? [20 Marks]