



UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

DEGREE IN ENVIRONMENTAL HEALTH
SUPPLEMENTARY EXAMINATION PAPER 2018

- TITLE OF PAPER** : MEAT PARASITOLOGY
- COURSE CODE** : EHM 403
- DURATION** : 2 HOURS
- MARKS** : 100
- INSTRUCTIONS** :
- : READ THE QUESTIONS & INSTRUCTIONS CAREFULLY
 - : ANSWER ALL FOUR (4) QUESTIONS
 - : EACH QUESTION CARRIES 25 MARKS.
 - : NO PAPER SHOULD BE BROUGHT INTO THE EXAMINATION ROOM.
 - : 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

- a) Explain the transmission and control of toxoplasmosis to human. [6]
- b) Suggest appropriate methods for the control of human tapeworms. [5]
- c) How would you control human fascioliasis in Swaziland? [5]
- c) How would you ensure that hydatid diseases are eliminated in Swaziland? [5]
- d) During the meat inspection, you find a small hydatid cyst in the lung, what will be your judgment and why? [4]

[25 Marks]

Question 2

- a) During cattle meat inspection, you find one *Taenia saginata* cyst in masseter muscles. What will be your judgment? Explain [8]
- b) In the case of pig inspection, you find one *Taenia solium* cyst in the masseter muscles. What will be your judgment? Explain [3]
- c) If then, the *T. saginata* cysts are in both the masseter muscles and the shoulder muscles. What will be your judgment? Explain [3]
- d) Name three (3) conditions that are commonly found in the kidney of cattle in Swaziland. [3]
- e) In meat inspection, the knowledge of the symptoms and lesions are paramount in assisting the meat inspector to reach an informed decision and judgment. The inspector may either condemn the whole carcass or only affected organs and parts of the carcass. Discuss the ante- mortem and post-mortem signs of red water fever. [8]

Question 3

- a. Describe the ante-mortem and post-mortem signs of heart water disease in goats. (14)
- b. Devise practical control measures for heart water disease. (5)
- c. Explain the measures that may be employed in the control of human Trichinellosis. (6)

[25 Marks]

Question 4

Meat inspection is a mandatory requirement for all animals that are slaughtered and used as food for man. This requirement is to ensure that meat is safe for human consumption. Explain the steps that should be followed in routine post-mortem cattle meat inspection in Swaziland

[25 Marks]