MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
THIRD YEAR SECOND SEMESTER

SCHOOL OF TOURISM AND NATURAL
RESOURCE MANAGEMENT

BACHELOR OF SCIENCE IN ANIMAL HEALTH
AND PRODUCTION

COURSE CODE: AHP 3202
COURSE TITLE: PUBLIC HEALTH AND
EPIDEMIOLOGY

DATE: 24TH APRIL, 2019   TIME: 1430 – 1730 HRS

INSTRUCTIONS TO CANDIDATES
Answer **ALL** questions

This paper consists of 2 printed pages. Please turn over

1. a. Briefly explain 5 challenges facing the veterinary public health in County governments of Kenya. (10 marks)
   b. Briefly explain 5 key reasons for conducting Meat Inspection. (10 Marks)

2. a. List edible and non-edible products of slaughter. (10 marks)
   b. Briefly explain two methods of percussion stunning that may be used in cattle. (6 Marks)
   c. Give the main reasons for stunning animals prior to bleeding. (4 marks)

3. a. Name two pathogens (genus & species) that can cause salmonellosis in man. (2 marks)

   b. Briefly describe how to control taeniasis. (8 Marks)
   c. Give five specimens you would submit to the laboratory when investigating a potential *Staphylococcus aureus* outbreak. (5 marks)
   d. Name the etiologic agent of toxoplasmosis. (1 mark)

   e. Give one mammalian reservoir for toxoplasmosis. (1 mark)

   f. Briefly explain the control/preventive measures against toxoplasmosis. (3 marks)

4. a. Give the meaning of the term 'epidemiology'. (2 marks)
   b. Mention five components of quantitative epidemiology. (5 marks)
   c. Mention three components of qualitative epidemiology. (3 marks)
   d. Give the two terms used in veterinary medicine to describe counts of disease or death. (2 marks)
   e. Define the term 'disease prevalence'. (2 marks)
   f. Calculate, disease prevalence in the below. Give answer as a percent (%). [3 Marks]
      i)   if three animals in a population of 30 are diseased.
      ii)   if five animals in a population of 40 are diseased.
      iii)   if six animals in a population of 70 are diseased.

   g. Define the term 'incidence' as used in epidemiology. (3 Marks)
   5 a. Discuss 'spread of infection in populations 'under the below headings: (10 marks)
      i.   The host.
      ii.   The pathogen.
      iii. The effectiveness of contact.

   b. Describe five methods in which an infectious agent can be transmitted, give an example of an infectious agent for each method mentioned. (10 marks)

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MAASAI MARA

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SUPPLEMENTARY UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR
THIRD YEAR SECOND SEMESTER

SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT

BACHELOR OF SCIENCE IN ANIMAL HEALTH AND PRODUCTION
COURSE CODE: AHP 4201

COURSE TITLE: PUBLIC HEALTH AND EPIDEMIOLOGY

DATE: TIME: 3HRS

Answer **ALL** questions

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PUBLIC HEALTH AND EPIDEMIOLOGY [100 Marks]

1. Explain the functions and responsibilities of Veterinary Public Health Practitioners.   [20 Marks]

2. Define the following terms used in meat and milk hygiene.   [20 Marks]

   a. Fit for Human Consumption.
   b. Safe.
   c. Wholesome.
   d. Hygienic processing.
   e. Condemned meat.
   f. Edible products.
   g. Inedible products.
   h. Ante-mortem.
   i. Post-mortem Inspection.
   j. Hygiene and Sanitation Inspection.

3. Discus botulism in man highlighting, etiology, source/epidemiology, foods involved, control measures.   [20 Marks]

4. Discuss goals of disease surveillance. (20 marks)

5. a) Explain in detail the term 'iatrogenic transmission' and list any five animal diseases that can be transmitted iatrogenically. (10 marks)

   b) Explain in detail venereal transmission and list any five animal diseases that can be transmitted through this means. (10 marks)