



# MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES

DEPARTMENT OF AGRICULTURAL SCIENCES

THIRD YEAR FIRST SEMISTER EXAMINATION FOR

BACHELOR OF SCIENCE IN PUBLIC HEALTH

HPH 303: MEAT PATHOLOGY AND INSPECTION

DATE: 30/8/2022

TIME: 8.30-10.30 AM

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**INSTRUCTIONS: Answer question ONE and any other TWO questions**

## QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Explain the following terms as applied during the process of livestock slaughter
  - i. Post mortem inspection (2 marks)
  - ii. Lairage (2 marks)
  - iii. Condemnation (2 marks)
- b) Explain the five functions of meat inspection in relation to public health (5 marks)
- c) Explain the five categories of information necessary for proper judgement to the wholesomeness of meat during meat inspection (5 marks)
- d) Explain three methods of disposal for condemned organs or carcasses (6 marks)
- e) Explain four malpractices in immobilization of livestock during slaughter (8 marks)

## QUESTION TWO (20 MARKS)

- a) Explain the term antemortem inspection of livestock during slaughter (2 marks)
- b) Discuss six types of abnormalities checked during antemortem inspection (12 marks)
- c) Describe three ways of restraining livestock during slaughter (6 marks)

**QUESTION THREE (20 MARKS)**

- a) Explain the term stunning as applied during livestock slaughter (1 mark)
- b) Describe three methods of stunning livestock during slaughter, giving one example in each method (9 marks)
- c) Discuss the hygiene procedures followed during transportation of meat (10 marks)

**QUESTION FOUR (20 MARKS)**

- a) Discuss five conditions that may lead to condemnation of organs or carcass during meat inspection (10 marks)
- b) Explain the five causes of pre slaughter stress on livestock (10 marks)

**QUESTION FIVE (20 MARKS)**

- a) Discuss the five effects of poor pre-slaughter handling on food animals (10 marks)
- b) Describe ten requirements that a category C slaughter house must fulfil in Kenya.(10 marks)