



MACHAKOS UNIVERSITY

University Examinations for 2022/2023 Academic Year

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES

DEPARTMENT OF AGRICULTURAL SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (AGRICULTURAL EDUCATION AND EXTENSION)

HPH 303: MEAT PATHOLOGY AND INSPECTION

DATE:

TIME:

INSTRUCTIONS:

Answer question ONE and any other TWO questions in part B

QUESTION ONE (COMPULSORY)(30 MARKS)

- a) Explain the following terms as applied during livestock slaughter
 - i. Post mortem inspection (2 marks)
 - ii. Lairage (2 marks)
 - iii. Condemnation (2 marks)
- b) Explain the four functions of meat inspection in relation to public health (2 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 (3 marks)
- e) Explain four malpractices in immobilization of livestock during slaughter (4 marks)
- f) Explain four measures that guide on proper stunning during slaughter (4 marks)
- g) Explain three signs of a generalised disease during post mortem inspection (3 marks)
- h) Explain how to undertake the post mortem inspection of a cow liver (3 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 (5 marks)
- c) Explain five requirements during design of passageways on pre slaughter handling system (5 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)