

NATIONAL UNIVERISTY OF LESOTHO

BSc ENVIRONMENTAL HEALTH

END OF SEMESTER EXAMINATION

JANUARY 2024

TIME: 3HOURS

EHS3314 MEAT HYGIENE

100 MARKS

Instructions to candidates

1. Answer **ALL** questions in the paper
2. Each question must be started on a new page

Question 1 [26 marks]

- I. Explain the following bacteria shapes:
 - a. Cocci [2]
 - b. Bacilli [2]
 - c. Coccobacillus [2]
 - d. Spirilla [2]
 - e. Vibrio [2]
 - f. Spirochetes [2]
- II. Describe clearly, the cause of meat spoilage [2]
- III. Write a discussion on meat hygiene and make an argument for its relevance in public health [5]

IV. List the basic amenities that must be made available in an abattoir? [7]

Question 2 [22 marks]

I. Mention the 4 types of line dressing that can be used during the slaughter process in an abattoir. [4]

II. Mention any 3 advantages and 3 disadvantages of line dressing [6]

III. At what temperature are carcasses at completion of slaughtering? [1]

IV. At what temperature should offals be kept? [1]

V. Complete the following table for specifications of different meat type in the chilling room: [10]

Meat type	Rail spacing	Chilling temperature
Beef		
Lamb		
Pork		
Veal		
Poultry and fish		

Question 3 [27 marks]

I. During ante mortem inspection, animals can be condemned and declared unfit for human consumption. Explain ways in which the abattoirs can dispose off the condemned animals? [6]

- II. Draw a flowchart of what happens to suspect animals during ante mortem inspection [12]
- III. During postmortem inspection, what parts of a carcass maybe trimmed or condemned? [3]
- IV. Differentiate between **chronic and acute** conditions [6]

Question 4 [25 marks]

- I. As a newly appointed meat inspector at XYZ abattoir, you are requested to conduct health education awareness for abattoir employees on foot and mouth disease. In details, discuss foot and mouth disease and indicate judgement that can be taken at ante or post mortem inspection. [20]
- II. Briefly discuss Fasciola hepatica as a liver fluke parasite [5]

END OF PAPER...