



MURANG'A UNIVERSITY OF TECHNOLOGY
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL
SCIENCES

DEPARTMENT OF AGRICULTURE

TVET EXAMINATION

2023/2024 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN
AGRICULTURAL EXTENSION

AGR/CU/EXT/CR/03/6/A: LIVESTOCK FEED FORMULATION

DURATION: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

1. Answer question one and any other two questions.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (30 MARKS)

- a. List the various functions of water to the animal body. (7 marks)
- b. List four disadvantage of a Pearson square method. (4 marks)
- c. List any four feed additives (give examples of each). (2 marks)
- d. What are the effects of very early defoliation? (5 marks)
- e. List and explain various methods in forage conservation. (6 marks)
- f. Factors affecting mixing efficiency. (6 marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

Explain factors to consider in feeding pigs. (20 marks)

QUESTION THREE (20 MARKS)

- a. List factors to consider during selection of planting materials. (10 marks)
- b. List and explain factors affecting feed intake of animals. (10 marks)

QUESTION FOUR (20 MARKS)

- a. Use the person square method to make a ration with 18% cp using cotton seed cake 40%cp and maize 10% cp. (10 marks)
- b. Make a ration of 25% CP and 3300 kcal/kg using the following ingredients. (10 marks)

Ingredient	DM%	CP% (DM basis)	ME (kcal/kg)
Maize bran	91	12	1700
Gluten meal	89	60	3700
Sunflower seed	93	13	3300
Nile perch	90	40	2400