

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION

AGEN 00134: FARM STRUCTURES AND MACHINERY

STREAMS: CERT (ANHE) Y1S2

TIME: 2 HOURS

DAY/DATE: MONDAY 14/04/2025

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS

- **This paper contains SEVEN questions**
- **Answer all questions in section A and any TWO questions in section B**

SECTION A (40 MARKS)

QUESTION ONE

- (a) Discuss the importance of fences in livestock management. (6 marks)
- (b) With the aid of a diagram, name the basic parts of a dairy cows housing unit. (4 marks)

QUESTION TWO

- a) Discuss five advantages of earth as a building material for walls (10 marks)

QUESTION THREE

- (a) Describe three types of natural stone products used in building
- (b) Explain the hand mixing method adopted for small jobs in concrete

QUESTION FOUR

- a) Define the term "Prefabrication" as applied in building construction. (3 marks)

- b) Describe the method of making bricks from moist soil using a mould for a hand operated press. (5 marks)
- c) With the aid of diagrams, explain the following types of roofs on buildings
 - i. Hip roof (1 mark)
 - ii. Gable roof (1 mark)

SECTION B (30 MARKS)

QUESTION FIVE

- a) Describe five desirable characteristics of roof surfacing material for pitched roofs. (10 marks)
- b) 10,000kg of wheat grain at a moisture content of 30% are dried to 14% moisture content before storage. Determine the weight of the dried grain [5 marks]

QUESTION SIX

- a) Explain five major objectives of mechanizing agriculture (10 marks)
- b) With the aid of a diagram, name the basic parts of a hay baler. (5 marks)

QUESTION SEVEN

- a) Describe the features of the ground where a cattle dip is to be located. (5 marks)
- b) Name three types of mowers used to cut grass in hay making. (6 marks)
- c) Discuss the importance of hay conditioning. (4 marks)

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