



# KISII UNIVERSITY

## UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF THE CERTIFICATE IN  
ANIMAL SCIENCE /HEALTH  
SECOND SEMESTER 2023/2024  
[JULY, 2024] AGEN 00342: FARM STRUCTURE, MECHANIZATION  
AND WATER SUPPLY**

**STREAM: Y2 S2**

**TIME: 2 HOURS**

**DAY: WEDNESDAY, 9:00 - 11:00 A.M.**

**DATE: 24/07/2024**

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### **INSTRUCTIONS**

- 1. Do not write anything on this question paper.***
- 2. Answer question ONE (Compulsory) and any other TWO questions.***

### **SECTION A (30 MARKS)**

- 1 a) What is farm structure? (2 marks)
- b) Explain the following terms as used in farm structure (20 marks)
- Trench fences
  - Strainer
  - Fencing
  - Live fence
  - Dam
  - Share
  - Bee hive
  - Cattle dip
  - Solar energy
  - Frog
- c) Types of posts to prepare for fencing are classified into 4 , describe them (8 marks)

### **SECTION B**

2 a) Give advantages of engine power

(5 marks)

b) Before construction of a plunge dip on any site which factors should be considered by the farmer (5 marks)

c) Mention any 4 types of bee hives you know (5 marks)

d) How can you care and maintain a disc plough (5 marks)

3a) Mention at least 5 uses of solar energy (5 marks)

b) How are these pumps used in water supply in the farm (5 marks)

- i. Hydrum
- ii. Reciprocating pump
- iii. Rotary pump
- iv. Roto-dynamic pump
- v. Solar pump

c) Give the importance of farm mechanization (5 marks)

4a) Give 5 advantages of a spray race (5 marks)

b) How trap bees using a catcher box (5 marks)

c) How can you care and maintain a bee hive? (5 marks)

d) What are the precautions taken when drying timber by air (5 marks)