INSTRUCTIONS TO CANDIDATES:

- Write your name and index number in the spaces provided.
- This paper consists of three sections A, B and C.
- Answer all the questions in sections A and B.
- Answer any two questions in section C.
- Answers should be written in the spaces provided in this booklet.

For Examiner’s Use Only:

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| TOTAL SCORE | 90 |

This paper consists of 8 printed pages. Candidates should check to ascertain that all papers are printed as indicated and that no questions are missing.

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SECTION A (30 MARKS)

Answer all the questions in this section the spaces provided

1. State one use of each of the following tools
   (i) Chaff cutter........................................................................................................ (½ mk)
   (ii) Augerbit............................................................................................................. (½ mk)

2. State four factors considered when siting an apiary. (2mks)

3. Give four predisposing factors of foot rot disease in sheep. (2mks)

4. (i) What is selection in livestock production. (1mk)
   (ii) State three methods used in selection of livestock (1½mks)

5. Give two functions of drones in a colony of bees. (1mk)

6. State three factors a farmer would consider when sourcing day old chicks. (1½mks)

7. Give four disadvantages of plunge dips. (2mks)

8. Name the tools used to perform the following activities.
   (a) Making holes for transplanting. (1mk)
   (b) Trimming elongated or overgrown hooves in livestock (1mk)
(c) Driving and removing nails from wood. (1mk)

9. State four functions of water to the body of an animal. (2mks)

10. Give four reasons why steaming up is important in a dairy cow. (2mks)

11. Define the following terms as used in expressing feed values.
   (i) Digestibility (1mk)
   (ii) Starch equivalent. (1mk)

12. State four reasons for maintaining and caring for farm tools and equivalent. (2mks)

13. List four structural requirements of a grain store (2mks)

14. List four ways in which vaccines may be administered to an animal. (2mks)

15. State three functions of feed additives in livestock production. (1½mks)
SECTION B: (20 MARKS)

Answer all the questions in this section in the spaces provided

16. Below is a diagram representing the reproductive system in poultry. Study it and answer the questions.

(a) Name the parts labelled A, X, and Y  
A………………………………………………………….  
X………………………………………………………….  
Y………………………………………………………….  

(b) Name two substances added to the egg at section labeled Y.  
………………………………………………………………………………………………………….  
………………………………………………………………………………………………………….  

(c) How long does the egg stay at section labeled X?  
………………………………………………………………………………………………………….  

(d) Below is a diagram of an egg

Which part of the egg represented by the letters Q and R would come out first during the laying process.  
………………………………………………………………………………………………………….  

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17. The diagram below shows the reproductive system of a cow. Study it and answer the questions that follow:

(a) Name the parts labeled

K……………………………………………………………
L…………………………………………………………
M………………………………………………………..
J…………………………………………………………

(b) Name the three hormones that control the oestrus cycle in a dairy cattle.  
………………………………………………………………………………………………………….
………………………………………………………………………………………………………….
………………………………………………………………………………………………………….

18. The diagrams below illustrate the four cycle of a tractor engine. Study them carefully and answer the questions that follow.

(a) Identify each of the four strokes illustrated in the diagrams.

K……………………………………………………………
L…………………………………………………………
M…………………………………………………………
N…………………………………………………………

(b) Name the part labeled P.  
………………………………………………………………………………………………………….

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19. (a) Give three reasons for breeding bees. (1½mks)
………………………………………………………………………………………………………….
………………………………………………………………………………………………………….
………………………………………………………………………………………………………….

(b) State five reasons why bees swarm. (2½mks)
………………………………………………………………………………………………………….
………………………………………………………………………………………………………….
………………………………………………………………………………………………………….
………………………………………………………………………………………………………….
………………………………………………………………………………………………………….

(c) List four tools/equipments used in harvesting honey. (2mks)
………………………………………………………………………………………………………….
………………………………………………………………………………………………………….
………………………………………………………………………………………………………….
………………………………………………………………………………………………………….

SECTION C: (40 MARKS)
Answer any two questions in this section in the spaces provided after question 22.

20 (a) Describe factors that a farmer should consider when constructing farm structures. (8mks)
(b) Explain the uses of fences in a farm. (8mks)
(c) State four methods of reinforcing barbed wire fence to make them last longer. (4mks)

21. (a) discuss brucellosis under the following sub –topics
   (i) Causal organism in cattle . (1mk)
   (ii) Symptoms (4mks)
   (iii) Control (5mks)

   (b) Outline the possible causes of low libido in bucks. (5mks)
   (c) Describe the management activities a poultry farmer would carry out to reduce stress in a flock of layers.

22. (a) List any two tractor drawn implements which requires the use of both the three-point hitch and the power take off (P.T.O) shaft. (2mks)

   (b) State six maintenance practices carried out on a disc plough. (6mks)
   (c) Compare the operational differences between a disc and mould board plough. (12mks)