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 section 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:

<table>
<thead>
<tr>
<th>SECTION</th>
<th>QUESTIONS</th>
<th>MAXIMUM SCORE</th>
<th>CANDIDATES SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1-19</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>20-27</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>28-70</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL 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)

1. Differentiate between vectors and parasites as used in livestock health. (1mk)

2. State two qualities of clean water for livestock use. (1mk)

3. Suggest three reasons why ewe may abandon their lambs. (1½mks)

4. a) Give two factors considered when siting a calf pen. (1mk)

   b) State two reasons why it is necessary to have individual calf pens instead of communal calf pens. (1mk)

5. Name four causes of stress in a flock of layers. (2mks)

6. State four functions of vitamins in the diet of livestock animals. (2mks)

7. State two maintenance practices of a cold chisel. (1mk)

8. a) Give one reason why it is necessary to take birth weight of young animals immediately after birth. (1mk)

   b) Suggest two factors that can lead to conception failure after the females have been served. (2mks)
9. Give two hormones that influence milk let down. (1mk)

10 a) State two functions of ventilation in a pig house (1mrk)

   b) What are the uses of guard rail in a pig farrowing pen? (1mk)

11 Suggest three factors that make embryo transplant unpopular with many livestock farmers. (1½mks)

12. Give three reasons for treating timber before use. (1½ mks)

13. Outline the reason for arranging brick in overlapping manner during the construction of farm buildings. (½ mk)

14. Under what conditions would a farmer prefer to use an ox-cart instead of a tractor drawn trailer? (1½mks)

15. Name three different types of tools used to trim overgrown hooves in sheep. (1½mks)

16. Give two disadvantages of using tractor hire services instead of own tractor. (1mk)

17. State four factors that may lead to culling in dairy cattle. (2mks)
18. Give four advantages of using battery system of rearing poultry. (2mks)

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19. State four factors which determine the nutrient requirement in cattle. (2mks)

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SECTION B: (20 MARKS)

Answers all questions in this section in the spaces provided.

20. Study the illustrations of fences below and answer the questions that follow.

a) Name the type of fences illustrated above. (1mk)

X…………………………………………..
Y…………………………………………..

b) Name the correct tool used in the maintenance of fence Y (½ mk)

………………………………………………………………………………………………………………

b) Give the correct tool and material used to attach the wire onto the wooden post during the construction of the structure labeled X. (1mk)

Tool:

………………………………………………………………………………………………………………

Material:

………………………………………………………………………………………………………………

21. Study the chicken condition illustrated below and answer the questions that follow.

a) Identify the deficiency nutrient responsible for the condition above. (½ mk)

………………………………………………………………………………………………………………
b) Use the information given on poultry feeding below and answer the questions that follow.

<table>
<thead>
<tr>
<th>Feed stuff</th>
<th>Protein (%)</th>
<th>Price/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish meal</td>
<td>70%</td>
<td>39</td>
</tr>
<tr>
<td>Maize meal</td>
<td>25%</td>
<td>20</td>
</tr>
</tbody>
</table>

(i) Formulate a ration weighing 200kgs containing 15% DC Protein using the maize meal and fishmeal as the ingredients. (Use Pearson’s square method.) (3mks)

22. Study diagrams of tools below and answer the questions that follow.

a) Identify the tools above. (1mk)
A…………………………………………
B…………………………………………

b) State the use of tool B above. (½ mk)
………………………………………………………………………………………………………

c) Give one maintenance practice of tool A. (½ mk)
………………………………………………………………………………………………………

23. Study the illustration below and answer the questions that follows.

a) Identify the practice. (½mk)
………………………………………………………………………………………………………

b) Why is the practice recommended for the 18th day of incubation. (½mk)
………………………………………………………………………………………………………
c) State **two** qualities of eggs for incubation. (1mk)

24. Study the diagram illustrating bee keeping structure below

![Bee Keeping Structure Diagram]

a) Identify the type of hive illustrated above. (½ mk)

b) Name the parts marked **X** and **Z** above.

**X**

**Z**

25. Study the illustration below and answer the questions that follow.

![Bee KEEPing Structure Diagram 2]

Name the parts labeled **O, P, Q** and **R** (2mks)

**O**

**P**

**Q**

**R**
b) State any **one** material used in making the part labeled V and show the ratio of which it is in the mixture. (1mk)

c) What is the function of the part labeled L (½ mk)

d) Name **one** material and **one** tool used in putting up the part marked S above. (1mk)

26. Study the photograph below and answer the questions that follows.

a) Identify the implement illustrated above. (½mk)

b) Classify the implement according to the mode of linkage. (½mk)

c) Give **one** advantage of using the above implement. (½mk)

27. The diagram below shows a farm structure use it to answer the questions that follow.

i) Identify the practice being carried out. (½ mk)

ii) Name the structure in which the practice is being carried out. (½ mk)

iii) Outline the advantage of the structure above over a plunge dip. (½ mk)
SECTION C (40 MARKS)

Answer any two questions in this section in the spaces provided after question. 30.

28. a) Describe the management of pigs immediately after farrowing up to weaning of piglets. (12mks)
   b) Give four qualities of colostrum making it suitable for calves. (4mks)
   c) State qualities of good beef preferred by consumers. (4mks)

29. a) Outline the factors to consider when planning for the construction of a poultry house. (10mks)
   b) Compare the use of animal drawn implements to tractor drawn implements. (6mks)
   c) State the factors influencing the choice of building materials. (4mks)

30. a) Describe the effects of parasites on livestock. (6mks)
   b) Explain seven factors that predispose livestock to diseases. (7mks)
   c) Describe the procedure of extracting honey from the honey combs using heat. (7mks)