FOR EXAMINERS USE ONLY

<table>
<thead>
<tr>
<th>SECTION</th>
<th>QUESTION</th>
<th>MAXIMUM SCORE</th>
<th>CAND. SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1-20</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>21-23</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>24-26</td>
<td>20</td>
<td></td>
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<td></td>
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<td></td>
<td>20</td>
</tr>
<tr>
<td>TOTAL SCORE</td>
<td></td>
<td>90</td>
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</table>
Section A (30 MARKS)

Instructions: Answer ALL the questions in this section in the spaces provided

1. What is ‘dry cow therapy’? (1 mark)

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2. Name a tool used for tightening barbed wires during fencing. (½ mark)

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3. Name two methods used by farmers to prevent piglet anaemia. (1 mark)

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4. State any four causes of stress to a flock of layers. (2 marks)

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5. In concrete making, what do the numbers 1:2:3 in a ratio stand for. (1 ½ marks)

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6. Name four structural features in a fish pond. (2 marks)

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7. List three harmful effects of tsetse flies on livestock. (1 ½ mark)

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8. Identify four physical characteristics of beef cattle. (2 marks)

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_________________________________________________________________________________
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9. List four causes of infertility in cattle. (2 marks)

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10. State four predisposing factors of mastitis disease in cattle. (2 marks)

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11. Suggest three factors that make embryo transplant unpopular with many livestock farmers (1 ½ mark)

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

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13. State four factors that may lead to culling in dairy cattle. (2 marks)

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

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15. a) Suggest three reasons why ewe may abandon their lambs. (1 ½ marks)

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b) Name the breed of rabbit with white body and red eyes. (½ mark)

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

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17. State three functions of feed additives in livestock production. (1 ½ marks)

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18. What is the name given to each of the following. (2 marks)
   i) Castrated cock
   ii) Feeding of livestock a few weeks before parturition.

19. Give two reasons for washing a cow’s udder with warm water before milking (2 marks)

SECTION B (20 MARKS)

Answer ALL the questions in this section on the spaces provided.

20. Diagram R below illustrates an activity carried out by a poultry farmer keeping layers. Study it carefully and answer the questions that follow.

   a) Identify the activity being carried out in set up R (1 mark)

   b) State four reasons why the activity set up in R is necessary before incubation of eggs. (4 marks)

   c) Why is it necessary to use carton board box? (1 mark)

21. Study the diagram below and answer the questions that follow

   a) An activity on a poultry farm is illustrated above. Diagram R carries a label B. What is the activity labeled B? (1 mark)

   b) Why is it necessary to carryout the activity described above? (4 marks)

   c) Would you recommend this diagram R for incubation purposes? Give reasons. (1 mark)

   The diagram above represents the activity of incubation of duck eggs. The table below shows the results of an experiment where ducks were incubated using the method described. 

<table>
<thead>
<tr>
<th>Incubation Time (days)</th>
<th>Hatching Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>60</td>
</tr>
<tr>
<td>15</td>
<td>75</td>
</tr>
<tr>
<td>20</td>
<td>85</td>
</tr>
<tr>
<td>25</td>
<td>90</td>
</tr>
</tbody>
</table>

   a) Plot a graph to represent the data above. (1 mark)

   b) The study was repeated, and the table below shows the results. The researcher noticed that the eggs were not getting the right amount of air. What should be done to improve the hatching rate? (4 marks)

<table>
<thead>
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<tbody>
<tr>
<td>10</td>
<td>70</td>
</tr>
<tr>
<td>15</td>
<td>80</td>
</tr>
<tr>
<td>20</td>
<td>90</td>
</tr>
<tr>
<td>25</td>
<td>95</td>
</tr>
</tbody>
</table>
a) Identify the implement labelled A  

b) i) State the field conditions where implementation A is useful.  

ii) State the functions of the part labelled B  

c) Outline two major maintenance practices of the above implement.  

22. Study the diagram below and use it to answer the questions that follow.

![Diagram of digestive system]

a) Name the stomach parts labelled:-  

A 

B 

C 

D 

b) i) Which class of animals does the digestive system drawn represent?.  

ii) Suggest the type of diet for the above class of animals which form the bulk of the food given to the animal.  

(1 mark)

23. Study the illustrations below and answer the questions that follow

a) Identify the tools S, T, U, V  

S__________________________________________________________________________
T__________________________________________________________________________
U__________________________________________________________________________
V__________________________________________________________________________

b) State the function of each tool  

S__________________________________________________________________________
T__________________________________________________________________________
U__________________________________________________________________________
V__________________________________________________________________________

(2 marks)

c) Identify two ways in which a farmer can maintain tool S  

__________________________________________________________________________
__________________________________________________________________________

(1 mark)
SECTION C (40 MARKS)

Answer ANY TWO questions from this section in the spaces provided after question 26

24. a) Describe the artificial rearing of a day old chick to the end of brooding (12 marks)
    b) Explain four practices observed in clean milk production (8 marks)

25 a) Describe the uses of farm fences (8 marks)
    b) State the functions of each of the following parts of a roof. (4 marks)
       i) Eaves
       ii) Wall plate
       iii) Rafter
       iv) Strut
    c) Name any two chemical preservative used to treat the wooden parts of the roof against insects and fungal damage. (4 marks)
    d) State four advantages of using tractor hire service in farming instead of owning and using your own tractor. (4 marks)

26. a) Describe the differences between diesel and petrol engines. (10 marks)
    b) State five care and maintenance practices done to a tractor battery. (5 marks)
    c) Explain the procedure of harvesting honey from the Kenya top bar hive. (5 marks)