Instructions to candidates

(a) Write your name and index number in the spaces provided above.
(b) Sign and write the date of examination in the spaces provided above.
(c) This paper consists of three sections; A, B and C.
(d) Answer all the questions in sections A and B and any two questions in section C.
(e) All answers should be written in the spaces provided on the question paper.
(f) This paper consists of 16 printed pages.
(g) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
(h) Candidates should answer the questions in English.

For Examiner's Use Only

<table>
<thead>
<tr>
<th>Section</th>
<th>Question</th>
<th>Maximum Score</th>
<th>Candidate's Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1 – 18</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>19 – 22</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>90</td>
<td></td>
</tr>
</tbody>
</table>

© 2015 The Kenya National Examinations Council
SECTION A (30 marks)

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

1. Name four rabbit breeds reared in Kenya. (2 marks)

2. State four characteristics of desirable eggs for marketing. (2 marks)

3. Name two types of roughage. (1 mark)

4. Give four disadvantages of inbreeding in livestock. (2 marks)

5. Name the nutritional deficiency for each of the following livestock diseases:
   (a) milk fever; .............................................................. ($\frac{1}{2}$ mark)
   (b) bloat. .............................................................. ($\frac{1}{2}$ mark)

443/2
915047
04500202
6 Give two reasons for docking in sheep rearing.  (1 mark)

7 State four signs of fowl typhoid.  (2 marks)

8 Differentiate between drift and pen lambing.  (2 marks)

9 State four features on the animal which may predispose it to livestock diseases.  (2 marks)

10 Give four factors that affect milk composition.  (2 marks)
11 State two control measures for keds in sheep. (1 mark)

12 State two maintenance practices carried out on a greenhouse structure. (1 mark)

13 (a) Name the goat breed which is brown in colour with white strips running down the face to the nose. (½ mark)

(b) State four rearing practices that necessitate handling of piglets. (2 marks)

14 Give four preventive measures for livestock diseases. (2 marks)

15 State one function of each of the following parts during egg formation in poultry:

(a) funnel; (½ mark)
(b) magnum; 

(c) isthmus.

16 The following is a list of poultry breeds:

White Leghorn
Light Sussex
Rhode Island Red
Ancona.

Categorize them into:

(a) light breeds; 

(b) heavy breeds.

17 State two functions of a queen in a bee colony.

18 State four maintenance practices carried out on a fish pond.
SECTION B: (20 marks)

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

19 The diagrams below represent some farm tools and equipment. Study them and answer the questions that follow.

(a) Identify the tools labelled N and P.

N .............................................................. (1 mark)

P .............................................................. (1 mark)

(b) State one use of each of the tools labelled M and Q.

M .............................................................. (1 mark)

Q .............................................................. (1 mark)
(c) Explain one maintenance practice carried out on the equipment labelled P. (1 mark)

20 The diagram below represents parts of a roof.

(a) Identify the parts labelled A and C.

A ................................................................. (1 mark)

C ................................................................. (1 mark)

(b) State two types of materials that may be used for the part labelled D. (2 marks)

(c) Give one disadvantage of using thatch for the part labelled B. (1 mark)
The diagram below illustrates an internal parasite of livestock.

(a) Identify the parasite. (1 mark)

(b) Name two common species of the parasite illustrated above. (2 marks)

(c) State two signs of worm infestation that may be observed in the dung of livestock. (2 marks)
22 Below is a diagram illustrating an instrument used in cattle breeding.

(a) Identify the instrument. (1 mark)

(b) State the role of the instrument in cattle breeding. (1 mark)

(c) When would it be appropriate to serve a cow after the onset of heat? (1 mark)

(d) Apart from the method in which the above instrument is used, name two other methods of serving a cow. (2 marks)
SECTION C: (40 marks)

Answer any TWO questions from this section in the spaces provided after question 25.

23 (a) Give the functions of any five parts of a poultry egg. (10 marks)

(b) Describe the uses of five materials/equipment required for hand milking. (10 marks)

24 (a) Describe East Coast fever under the following sub-headings:

(i) livestock affected; (1 mark)

(ii) vector and causal organism; (2 marks)

(iii) signs of attack; (5 marks)

(iv) control measures. (2 marks)

(b) Describe the activities that take place during the digestion process in the rumen. (5 marks)

(c) Describe the management practices that ensure proper hygiene in a deep litter poultry house. (5 marks)

25 (a) State five signs of external parasite infestation in livestock. (5 marks)

(b) Explain five factors that should be considered when siting a farm store. (5 marks)

(c) Describe the cycle of a four stroke petrol engine. (10 marks)