INSTRUCTIONS TO CANDIDATES

• Write your name and index number in the spaces provided above
• Sign and write the date of examination in the spaces provided above.
• This paper consist of THREE sections A, B and C
• Answer ALL the questions in section A, B and any two questions from section C
• All answers must be written in the spaces provided.

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>1-21</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>22-25</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>Total score</td>
<td></td>
</tr>
</tbody>
</table>

This paper consists of 12 printed pages.
Candidates should check the questions to ensure that all pages are printed as indicated and no question(s) are missing

© 2013 KIKUYU DISTRICT INTERSCHOOLS
KENYA CERTIFICATE OF SECONDARY EDUCATION  

TURNOVER
SECTION A: (30 MARKS)

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

1. Identify the primary products of the following livestocks. (1mk)
   a) Bees
   _______________________________________________________________________
   b) Donkeys
   _______________________________________________________________________

2. Name a tool used for tightening barbed wire while fencing. (1mk)
   _______________________________________________________________________

3. Name one hair goat (1mk)
   _______________________________________________________________________

4. State two factors that determine the amount of water required by an animal. (1mk)
   _______________________________________________________________________
   _______________________________________________________________________
   _______________________________________________________________________

5. Identify one accessory gland in the male reproductive system of cattle and give its functions. (2mks)
   _______________________________________________________________________
   _______________________________________________________________________

6. Name four physiological body functions that may indicate the health of an animal. (2mks)
   _______________________________________________________________________
   _______________________________________________________________________
   _______________________________________________________________________
   _______________________________________________________________________

7. Give two examples of zoonotic diseases in livestock. (1mk)
   _______________________________________________________________________
   _______________________________________________________________________

8. Identify two methods used in selection of livestock other than mass selection. (1mk)
   _______________________________________________________________________
   _______________________________________________________________________

9. State one use of each of the following farm tools.
   a) Stock and die; (1mk)
   _______________________________________________________________________
   _______________________________________________________________________
   b) Garden trowel; (1mk)
   _______________________________________________________________________
   _______________________________________________________________________

For More Free KCSE past papers visit www.freekcsepastpapers.com
10. Differentiate between prepotency and prolificacy in livestock production. (2mks)

11. State two harmful effects of fleas in chicken rearing. (1mk)

12. State one cause of grass staggers in cattle. (1mk)

13. State two causes of soft shells in eggs. (1mk)

14. Name four livestock production structures used to control parasites in the farm. (2mks)

15. State two disadvantages of using biogas as a source of power in the farm. (1mk)

16. State four rules of microbes that are found in the rumen of ruminant animals. (2mks)

17. List three duties of a worker bee in a hive. (1\(\frac{1}{2}\)mks)

18. Name three components of the tractor ignition system. (2mks)
19. Name the hormones that bring about the following in milk production:
   a) Contraction of muscles of the upper region of the mammary gland. 
      \[\frac{1}{2} \text{mk}\]
   b) Relaxation of mammary gland muscles 
      \[\frac{1}{2} \text{mk}\]
   c) Initiating lactogenesis 
      \[\frac{1}{2} \text{mk}\]
   d) Maintenance of pregnancy 
      \[\frac{1}{2} \text{mk}\]

20. Why are the rear wheels of a tractor large and wider than the front wheels. 
    \[1 \text{mk}\]

21. State three conditions necessary for artificial incubation. 
    \[1\frac{1}{2} \text{mks}\]
22. Below is a sketch of a livestock. Study it carefully and answer the questions that follow.

a) Identify the type of cattle. (1mk)

b) Explain your reason for the answer in (a) above. (1mk)

c) Name the parts labelled:-

Y (1mk)

Z (1mk)

d) Give one rearing practice that is carried out occasionally on the part labelled X. (1mk)

23. Diagrams G, H and J illustrates livestock parasites. Study them carefully and answer the questions that follow.
a) Identify the parasites. (1½ mks)
   G: ________________________________________________________________
   H: ________________________________________________________________
   J: ________________________________________________________________

b) State the category of the above parasites. (½ mk)
   ________________________________________________________________

c) Name the part of the body in which the parasite G and J are found in livestock. (½ mk)
   G: ________________________________________________________________
   J: ________________________________________________________________

d) Name the intermediate hosts of parasites G and H. (1 mk)
   G: ________________________________________________________________
   H: ________________________________________________________________

24. Below are illustrations of farm tools. Study the illustrations and answer the questions that follow.

   A
   B

   a) Identify the tools labelled A and B above. (2 mks)
   A
   ________________________________________________________________
   ________________________________________________________________
   B
   ________________________________________________________________
   ________________________________________________________________

   b) State the use of the tool B named in (a) above. (1 mk)
   ________________________________________________________________
   ________________________________________________________________

   c) Give one precaution measure that a farmer need to observe when using tool B. (1 mk)
   ________________________________________________________________
   ________________________________________________________________

   d) Name one maintenance practice for tool A. (1 mk)
   ________________________________________________________________
   ________________________________________________________________
25. The diagram below is a special method of feeding young ones from birth to weaning. Study it carefully and answer the questions that follow.

a) Identify the type of feeding. (1mk)

_____________________________________________________________________
_____________________________________________________________________

b) What two reasons would make a farmer carry out the above illustrated practice. (2mks)

_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________

For More Free KCSE past papers visit www.freekcsepastpapers.com

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________
_____________________________________________________________________

_____________________________________________________________________
_____________________________________________________________________

_____________________________________________________________________
_____________________________________________________________________

_____________________________________________________________________
_____________________________________________________________________

_____________________________________________________________________
_____________________________________________________________________

_____________________________________________________________________
_____________________________________________________________________

_____________________________________________________________________
_____________________________________________________________________

_____________________________________________________________________
_____________________________________________________________________

_____________________________________________________________________
_____________________________________________________________________

_____________________________________________________________________
_____________________________________________________________________

c) Give two importance of feeding colostrum to the youngones of livestock. (2mks)

_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________

For More Free KCSE past papers visit www.freekcsepastpapers.com
SECTION C
Answer only TWO questions in this section

26. a) Outline ten factors a farmer should consider to ensure fast and efficient ploughing by oxen. (10mks)
    b) Describe five factors that are considered when selecting constructional materials in the farm. (10mks)

27. a) Discuss mastitis disease under the following sub-headings.
    (i) Animals attacked (2mks)
    (ii) Predisposing factors (5mks)
    (iii) Symptoms (2mks)
    (iv) Control and treatment (7mks)
    b) Explain four practices carried out on fish after harvesting and before preservation. (4mks)

28. a) Outline five signs that indicate that a sow is about to furrow. (10mks)
    b) Discuss five factors that affect the composition of milk. (10mks)