**KAKAMEGA SUB-COUNTY EXAMINATION**

**Kenya Certificate of Secondary Education (KCSE)**

**AGRICULTURE 443/2**

**INSTRUCTIONS TO CANDIDATES.**

1. Write your name and index number in the spaces provided above
2. Sign and write the date of examination in the spaces provided.
3. This paper consists of **THREE** sections; A, B, and C.
4. Answer all questions in sections A and B.
5. Answer any **TWO** questions in section C.
6. All the questions should be answered in the spaces provided

**For Examiners’ Use Only**

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| **SECTION** | **MAXIMUM SCORE** | **CANDIDATES SCORE** |
| **A** |  **30** |  |
| **B** |  **20** |  |
| **C** |  **20** |  |
|  |  **20** |  |
| **TOTAL** |  **90** |  |

1 Name the intermediate hos t of the following parasites:. (1mk)

 (i) Tape worm ------------------------------------------------------------------------------------------------------------

 (ii)Liverflluke -----------------------------------------------------------------------------------------------------------

2 Why are goats suited to dry parts of Kenya (1½mk)

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3 State three practices that make ranching an improved system of pastoral nomadism. (1½mk)

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4a) Give four precautions taken by farmers when using tools for farm operations (2mks)

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 b) Give two examples of plumbing tools. (1mk)

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5 State three factors that influence the digestibility of food in livestock. (1½mk)

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6 Differentiate between cross breeding and out crossing . (1mk)

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7a) What is embryo transplant. (1mk)

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 b) Give two advantages of embryo transplant. (2mks)

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8 How does docking sheep help prevent spread of diseases in sheep management. (1mk)

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9 State three reasons of feeding calves on colostrum (1½mk)

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10 List two types of calf pens. (1mk)

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11 State four qualities of eggs for incubation (2mks)

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12 Outline any three digestive processes that occur in the rumen of cattle (1½mk)

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13 State three disadvantages of a hedge as a fence (1½mk)

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14 State four roles of worker bees in a colony. (2mks)

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15 Give two signs that would indicate that a cow died of anthrax (2mks)

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16 Give two examples of succulent roughages (1mk) ----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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17 State the functions of the following tractor parts (1mk)

(i) Carburrator ----------------------------------------------------------------------------------------------------------

(ii)IInduction coil --------------------------------------------------------------------------------------------------------

(iii) Spark plug --------------------------------------------------------------------------------------------------------

18a State four ways of controlling cannibalism in a deep liter poultry house (2mks)

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19 Name any one dual purpose breed of cattle (½ mk)

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**SECTION B (20MKS)**

Answer All questions in this section in the spaces provided

19 The diagram drawn shows the cross section of a fish pond. Study it and answer questions that follow.



a) State the function of the parts A ,B, and C (3mks)

 A**……………………………………………………………………………………………………**

 B**……………………………………………………………………………………………………**

C**……………………………………………………………………………………………………**

b) State three practices carried out in the structure before stocking it. (1½mks)

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c) What is cropping in fish rearing? (½mrk)

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20 Below is a diagram of a sheep with some parts labelled J, K and L. Study the diagram and answer the question that follow

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1. Name the operation usually carried out on the part labeled **J** during the early stages of sheep life (½ mk)

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1. Give two reasons for carrying out the above operation ie in (a) above (2mks)

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1. Name two methods of carrying out the above operation ie (in (a) above). (1mk)

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1. Which routine operation is usually carried out on the part labelled K. (½mk)

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21 Name two tools used in the construction of a rabbit hutch. (1mk)

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(i) Name the tools labeled 1-6 (3mks)

1..................................................

 2...................................................

 3..................................................

 4..................................................

 5...................................................

 6..................................................

(ii) What is the function of the tool labeled 1 and 2

 1..................................... ( ½ mk)

 2..................................... ( ½ mk)

22. The diagram below represents the reproductive system of a ball. Study it and answer the questions that follow.



(a) Identify the parts A, B and D. (3 mks)

A………………………………………………………………………………………

B………………………………………………………………………………………

D………………………………………………………………………………………

(b) What is the function of part A (1 mk)

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1. Name the type of cell division that occurs in the part labeled D (1mk)

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**SECTION C (40mks)**

Answer Both questions from this section in the spaces provided

23a) State factors considered when choosing building materials on the farm. (6mks)

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1. Describe the operational mechanism of a four stroke cycle engine (12mks)

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1. State two disadvantages of a two stroke engine (2mks)

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24a) Explain six physiological body functions of a healthy animal. (6mks)

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 c) Explain eight general disease control measures (8mk s) ----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

c) Explain six ways of controlling tsetse flies (6mks)

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25a) Describe the process of milk let down (6mks)

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 b) State eight characteristics of indigenous cattle. (8mks)

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1. State the differences between ruminants and non-ruminants (4mks)

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