

NAME ..... ADM NO.....

CLASS..... DATE ..... SIGN .....

443/2

AGRICULTURE

PAPER 2

2 HOURS

**FORM FOUR END OF TERM TWO 2020**

**AGRICULTURE**

**Paper 2**

**2 Hours.**

**INSTRUCTIONS TO CANDIDATES**

- a) Write your name, admission number and class in the spaces provided above.
- b) Sign and write the date of the examination in the spaces provided above.
- c) This paper consists of **three** sections : **A, B and C.**
- d) Answer **all** question in section **A and B.**
- e) Answer any **two** questions in section **C.**
- f) All answers should be written in the spaces provided.
- g) **This paper consists of 14 printed pages.**
- h) **Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.**
- i) **Candidates must answer all the questions in English.**

**For Examiner's Use Only**

SECTION	Question	Maximum Score	Candidate's Score
A	1 – 18	30	
B	19 – 22	20	
C		20	
		20	

<b>TOTAL SCORE</b>	<b>90</b>	
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**SECTION A (30 marks)**

Answer **all** the questions in the spaces provided.

1. Name any **two** dairy cattle breeds reared in Kenya. (1mk)

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2. List **four** materials that can be used in constructing a Kenya Top Bar Hive. (2mks)

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3. a) What is a zoonotic disease? (½mk)

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- b) Give **one** example of zoonotic disease. ( ½mk)

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4. a) State **four** factors affecting feed digestibility in livestock. (2mks)

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b) State **two** functions of crop in poultry digestive system. (1mk)

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5. Give **three** limitations of using solar power on the farm. (1½mks)

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6. State **three** reasons for carrying out egg candling before incubation. (1½mks)

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7. State **two** functions of a queen bee in a colony. (1mk)

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8. Give **two** categories of tractor drawn implements on the basis of the mode of attachment.

(1mk)

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9. State **two** advantages of natural calf rearing. (1mk)

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10. Distinguish between each of the following terms as used in livestock rearing practices.

a) Steaming up and flushing. (2mks)

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b) Kindling and farrowing. (2mks)

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11. Give **four** reason of using litter in a deep litter poultry rearing system. (2mks)

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12. Give **four** factors considered when sitting a fish pond in a farm. (2mks)

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13. State **four** reasons for castrating male kids not required for breeding in a farm. (2mks)

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14. Mention **four** physical characteristics of exotic beef cattle breeds. (2mks)

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15. State **four** reasons that necessitate handling of livestock in the farm. (2mks)

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16. List **three** factors that influence the strength of concrete. (1½mks)

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17. Name **three** routes through which vaccines can be administered in livestock. (1½mks)

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18. Name **four** ways of increasing ploughing depth of the disc plough. (2mks)

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**SECTION B (20 Marks)**

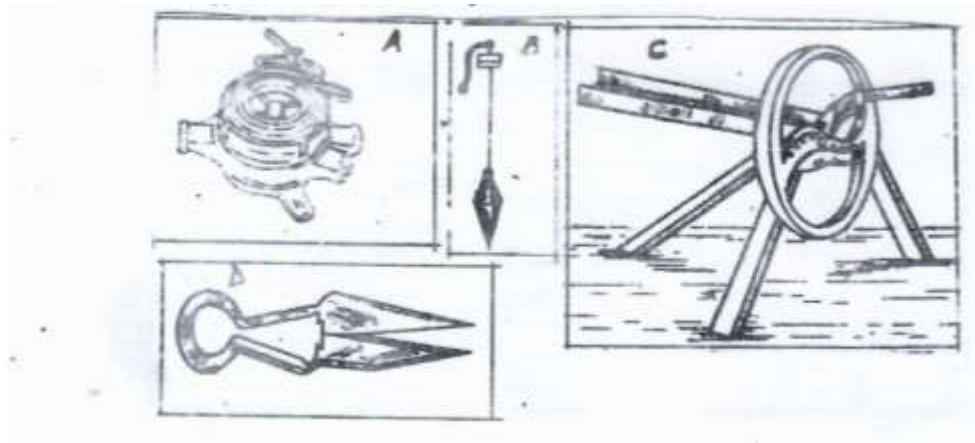
Answer **all** the questions in the spaces provided.

19. a) Using a Pearson's square, Calculate how much of wheat (35% D.C.P) would be mixed with sunflower seedcake (10% DCP) to come up with duck mash (20 % DCP ) on a ration weighing 200kg. (show your working) (4mks)

b) Apart from the Pearson's square method, **Name** the other method used in livestock feed computation. (1mk)

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



a) Identify the tools labeled A and B. (2mks)

A .....

B .....

b) State **one** use of each of the tools labeled C and D. (2mks)

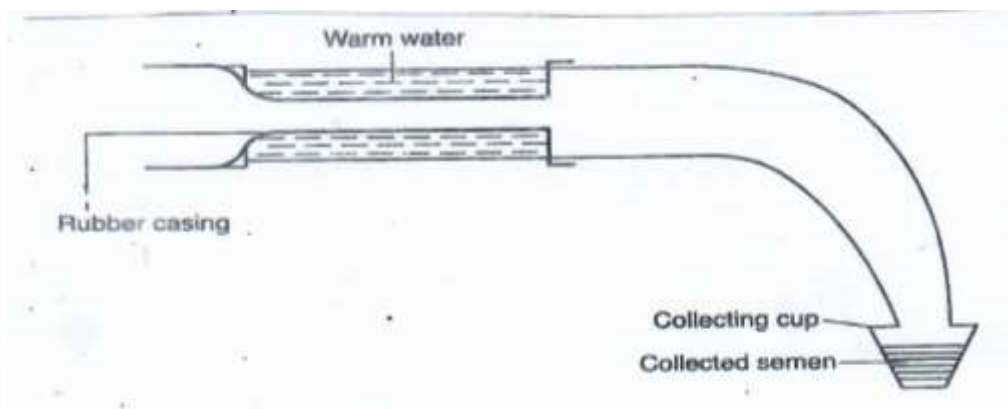
C .....

D .....

c) Explain **one** maintenance practice carried out on tool D. (1mk)

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21. The diagram below shows livestock production equipment. Study it and answer the questions that follow.





a) Identify the equipment. (1mk)

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b) What is the importance of the warm water in the equipment. (1mk)

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b) Describe the procedure followed when using the equipment in collecting semen. (3mks)

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22. The diagram below shows various methods of a **practice** in livestock production.



a) Name the practice. (1mk)

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b) Name the methods A, B, and C (3mks)

A .....

B .....

C .....

c) State **one** disadvantages of method A. (1mk)

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**SECTION C (40 Marks)**

Answer any **two** questions from this section in the spaces provided after question **25**;

23. a) State **five** signs of parturition in a cow. (5mks)

b) State **five** control measures of Round worms (*Ascaris lumbricoides*) in livestock. (5mks)

c) Describe Coccidiosis disease under the following sub-headings. (2mks)

i. Animals attacked.

ii. Symptoms of attack. (5mks)

- iii. Control (3mks)
24. a) Outline **five** factors that contribute to the distribution of livestock in Kenya. (5mks)
- b) Describe **five** maintenance practices carried out on a rotary mower . (5mks)
- c) Discuss **five** factors affecting milk composition in livestock production. (10mks)
25. a) Describe the artificial rearing of layers chick from one day up to the end of brooding. (10mks)
- b) Outline the uses of fences in the farm. (10mks)

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