

NAME.....INDEX NO.....  
SCHOOL.....CANDIDATE'S SIGNATURE.....  
DATE.....

443 / 1  
AGRICULTURE  
PAPER 1  
MARCH / APRIL 2015  
2 HOURS

## KABONDO DIVISION JOINT EVALUATION TEST

*Kenya Certificate of Secondary Education*

### **INTRODUCTION TO CANDIDATES**

- i) Write your name and index no in the spaces provided
- ii) Put your signature in the spaces provided above
- iii) Write your answers in the spaces provide after every question

For examiner's use only

Question	1	2	3	4	5	6	7	8	9	10	11	12
Marks												

Question	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Marks														

*This paper consists of 10 printed pages. Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing*

SECTION A (30 MKRS)

1. What is nomadic pastoralism as a method of farming ? (1/2)

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2. State two reasons why it is necessary to cultivate land before planting (1mk)

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3. Give two reasons why leguminous plants are preferred for green manure (1mk)

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4. State two methods of increasing soil PH (1mk)

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5. State two effects of pests in crop production (1mk)

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6. Give two forms in which nappier grass may be used to feed livestock (1mk)

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7. List three signs shown by crops when nitrogen is deficient in the soil (1mk)

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8. State four factors that determine the choice of an irrigation system to use in a farm (2mks)

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9. Give four advantages of using zero grazing system (2mks)

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10. State four factors considered in selection of planting materials (2mks)

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11. State four factors that determine the quality of grass hay (2mks)

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12. Give four roles of trees in soil and water conservation (2mks)

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13. State the importance of each of the following in a farm (1mk)

a) Strip cup

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b) Ball pen hammer

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14. State two cultural weed control measures in maize plantation (1mk)

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15. Give four factors that determine the method of fertilizer application (2mks)

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16. Give four ways of harvesting water in the farm (2mks)

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17. State four advantages of crop rotation practice in a farm (2mks)

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18. State four factors that affects the efficiency of pesticides (2mks)

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19. Explain two ways monocropping leads to soil infertility (2mks)

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20. Name four farming practices farmers can use to achieve minimum tillage (2mks)

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SECTION B (20 MKS)

21. A) A farmer in Kabondo was advised to apply 80 kg of nitrogen to his maize plantation during top dressing. The fertilizer available was calcium ammonium nitrate (20% N). Calculate the amount of this fertilizer in kilograms the farmer should purchase (2mks)

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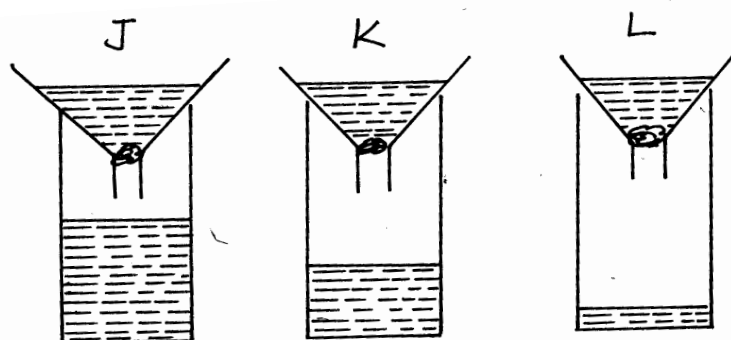
B. At what stage should the farmer top dress his maize crop

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C. State three applications practices the farmer should consider to maximize the use of the fertilizer by the crop for top dressing (3mks)

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22. The diagram below illustration an investigation on property of soil using samples labeled J,K and L



a.) If the level of water drained into the test tubes were observed after two hours, name the property of soil being investigated (1mk)

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b.) What is the relationship between this property of soil and the size of soil particles (1mk)

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c.) Which soil sample will be suitable for growing paddy rice? (1mk)

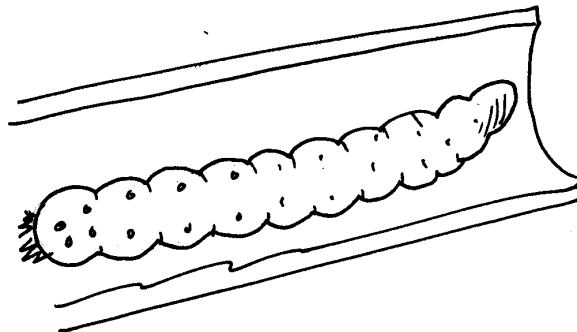
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d.) Name the type of soil labeled (2mks)

J. ....

L. ....

23.



The diagram above shows a pest in production of cereal crops ,use it to answer the question below.

a. Identify the pest

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b. Give two damages caused by the pest indentified in (a) above.....

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c. Give two control measures of the pest above (1mk)

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d. Give four reasons why pest control practices should be effectively implemented in a farm. (2mks)

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SECTION C

24. A. Explain six cultural methods of controlling crop diseases (12mks)

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B. Describe the effects of land fragmentation and subdivision (8mks)

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25. a. Explain how five factors leads to loss of soil fertility (10mks)

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b. Explain five ways by which farmers minimize grain losses in stores (10mks)

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26. a. Explain three reasons for pruning coffee (3mks)

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b. Discuss the production of kales under the following sub headings (12mks)

- Transplanting

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- Weed control

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- Pests and diseases

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c. State five factors that would influence soil erosion (5mks)

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Marks													

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

**SECTION A (30MARKS)**

**(Answer all question in the spaces provided)**

1. Name three types of dairy goats reared in Kenya (1 ½)

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2. a. What is raddling in sheep management (1mk)

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- b. Give two reasons for raddling in sheep management (1mk)

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3. Give three advantages of contemporary comparison method in selection of livestock (1 ½)

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4. State four advantages of animal power in the farm (2mks)

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5. Give two qualities of a creep feed that make it suitable for piglets (1mk)

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6. Give two reasons for spreading a polythene paper (pvc) on the slab of a permanent farm building (2mks)

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7. Name three types of Fresh warm water fish reared in Kenya (1 ½ mks)

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8. a) Give three disadvantages of inbreeding in cattle production (1½mks)

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b). Give three advantages of embryo transplant in cattle (1½mks)

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9. Give two factors inhibiting milk let-down (1mk)

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10. a. Differentiate between “Flushing “and “Steaming up “ in livestock management (2mks)

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b. Give three characteristics of succulent roughage (1½mks)

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11. State two characteristics of a air cooled engines (1mk)

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12. Give four characteristics of a good vaccine (2mks)

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13. State five factors that necessitate culling of a dairy cow (2<sup>1</sup>/<sub>2</sub>mks)

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14. Give two reasons why the afterbirth is removed immediately the sow farrows (1mk)

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15. Give two reasons why bees swarm (1mk)

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16. List three chemical methods of treating timber (2mks)

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17. Give four importance of farm buildings (1mk)

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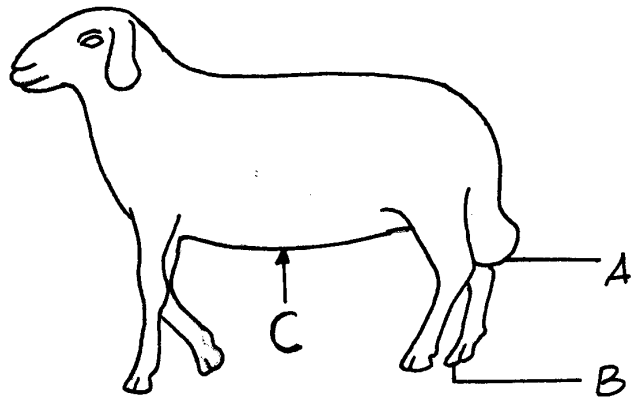
18. State two control measures of controlling fleas in a flock of layers (1mk)

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**SECTION B (20 MARKS)**

*Answer all question s in the spaces provided*

19. Below is an illustration of a sheep with some parts labeled A,B and C. Study the diagram



a. State the practices carried out on the part labeled A,B and C

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b. State two reasons for carrying out the operation on the part labeled A. (1mk)

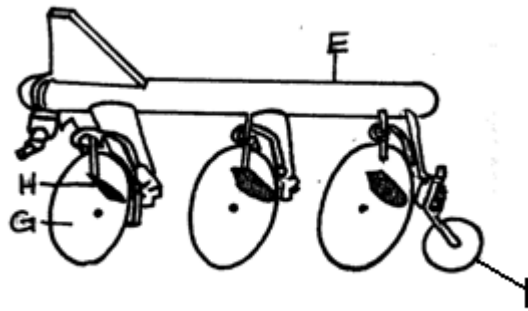
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c. Name one tool used for operation carried out on the part labeled B and C(1mk)

B.....

C.....

20. Study the illustration below and answer questions that follows



i) Identify the implement illustrated above (1mk)

.....

ii) Name the parts labeled E,F,G and H (2mks)

A \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

D \_\_\_\_\_

iii) State three ways in which the depth of ploughing can be increased when using the implement above (3mks)

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21. The illustration below represents the digestive system of a poultry. Study and answer questions that follow.



i) Name the parts Q,R and S (1½)

Q. \_\_\_\_\_

R. \_\_\_\_\_

S. \_\_\_\_\_

ii) State the functions of the part labeled Q and R (2mks)

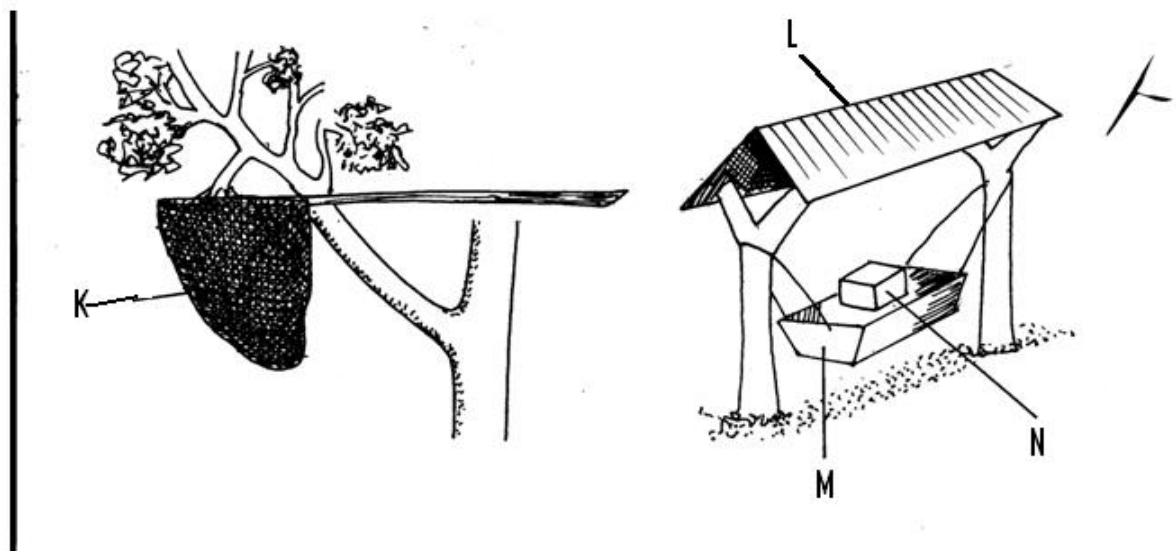
Q. \_\_\_\_\_

R. \_\_\_\_\_

iii). Give two characteristics of the part labeled S that make it effective in its function (2mks)

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22. Below is an illustration of a bee keeping structure



a.) Name the parts labeled K,L,N and M (2mks)

K. \_\_\_\_\_

L. \_\_\_\_\_

N. \_\_\_\_\_

M. \_\_\_\_\_

b. Give two factors that affects quality of honey (2mks)

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c.Name two types of pests that affects bees (1mk)

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**SECTION C 40 MARKS**

*Answer any two questions from this section*

23. a. Describe the characteristics of eggs selected for incubation (5mks)

b. Discuss five factors which affects the quality of honey (5mks)

c. Describe the management of growers from the 9<sup>th</sup> week to the point of lay (10mks)

24. a. Outline ten functions of Rumen (10mks)

b. Describe the digestion of grass in the rumen of an adult ruminant (8mks)

c. Describe two reasons why raddling is necessary in sheep management (2mks)

25. Describe the component parts of a plunge dip for cattle (20mks)

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