

NAME ..... ADM NUMBER .....

SCHOOL ..... SIGNATURE .....

DATE .....

443  
AGRICULTURE  
OCTOBER/NOVEMBER 2015  
TIME: 2 HRS

**KANDARA SUB-COUNTY SECONDARY SCHOOLS FORM 2  
2015 JOINT EXAMINATION**  
KENYA CERTIFICATE OF SECONDARY EDUCATION (K.C.S.E)

**AGRICULTURE**  
October/November 2015  
Time: 2 hours

**INSTRUCTIONS TO CANDIDATES**

- a) Write your name, admission number, date and signature in the spaces provided above.
- b) This paper consists of three sections: A, B and C.
- c) Answer all questions in the spaces provided.

**FOR EXAMINER'S USE ONLY**

Section	Question	Maximum Score	Candidates Score
A	1-12		
B	13-16		
C	17 - 19		
<b>TOTAL SCORE</b>			

**SECTION A (40 MARKS)**

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

1. State three advantages of organic farming. (3 marks)

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2. a) State two causes of a hardpan in the farm. (1 mark)

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- b) Name two implements that can be used to break a hardpan. (2 marks)

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3. State two conditions under which shifting cultivation is practised. (2 marks)

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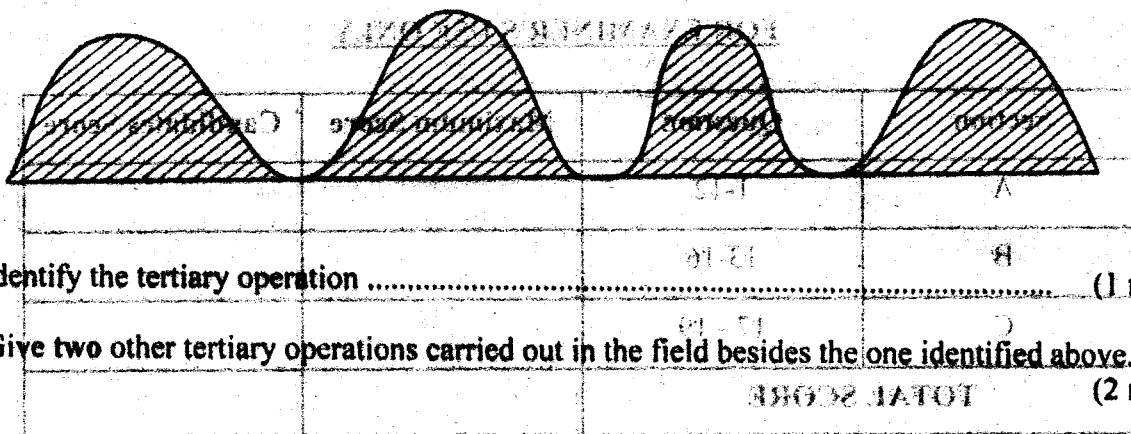
4. Give three factors that determine depth of ploughing during land preparation. (3 marks)

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5. The diagram below illustrates a tertiary operation carried out in the farm.



- a) Identify the tertiary operation ..... (1 mark)

- b) Give two other tertiary operations carried out in the field besides the one identified above. (2 marks)

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16. Mention the two categories of feedstuffs.

(1 mark)

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**SECTION C (30 MARKS)**

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

17. a) Give five reasons for keeping livestock healthy.

(5 marks)

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b) Describe the symptoms of roundworm infestation in livestock.

(7 marks)

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18. Describe uses of farm records.

(10 marks)

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19. Discuss field production of tomatoes under the following subheadings;

a) Varieties

(2 marks)

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b) Field management practices

(6 marks)

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6. State the functions of the following chemicals as used in water treatment. (3 marks)

i) Chlorine

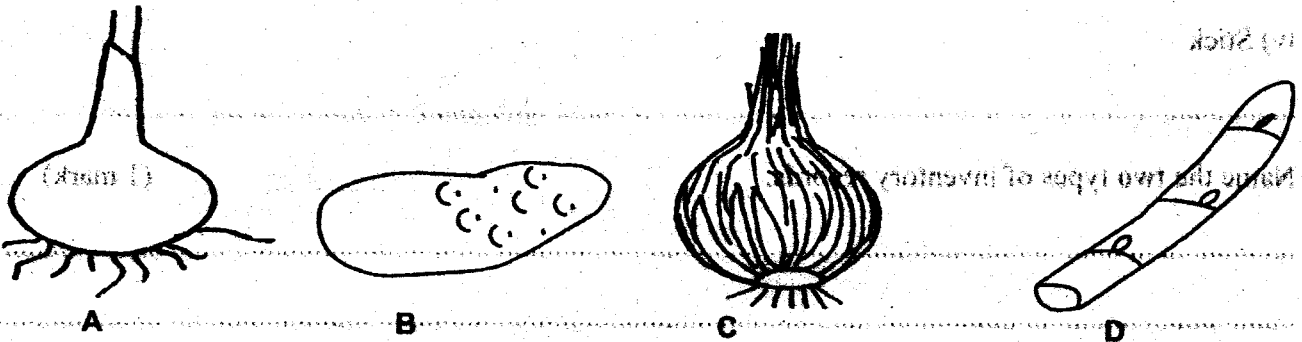
ii) Alum

iii) Soda ash

7. State three disadvantages of farm yard manure. (3 marks)

8. Give four functions of sulphur in crops. (4 marks)

9. Below are diagrams showing vegetative material used for propagation.



a) Name the propagation materials A, B, C and D. (4 marks)

A ..... B .....

C ..... D .....

b) What is the term used for inducing B to start germinating. (1 mark)

c) State four advantages of vegetative propagation. (2 marks)

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10. State four importance of thinning seedlings in the nursery bed. (4 marks)

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11. State one function of each of the following components in a compost heap. (4 marks)

i) Ash

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ii) Garden soil

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iii) Organic manure

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iv) Stick

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12. Name the two types of inventory records.

(1 mark)

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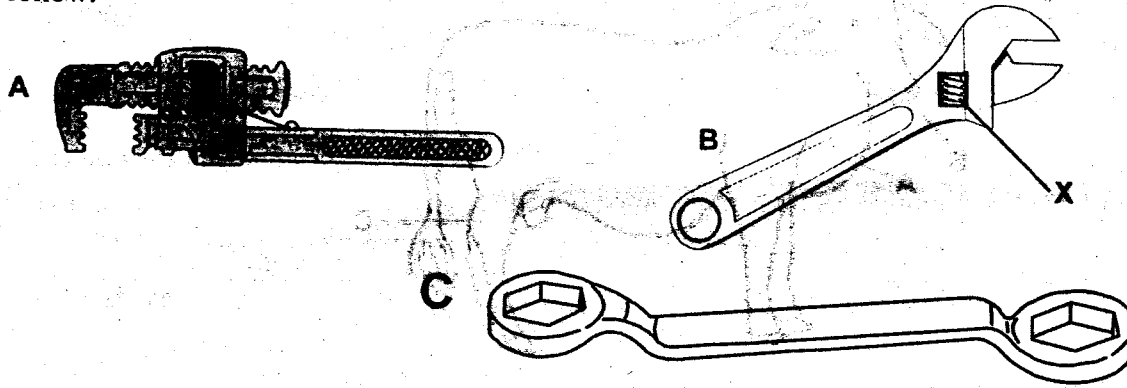
(2 marks)

(2 marks)

**SECTION B (30 MARKS)**

**Answer ALL the questions in the spaces provided**

13. The diagrams below show some workshop tools. Study the diagrams and answer the questions that follow.



a) Identify the tools labelled A, B and C. (3 marks)

A .....

B .....

C .....

b) What functional advantage does the tool labelled B have over the tool labelled C. (1 mark)

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c) State the function of the tool labelled A. (1 mark)

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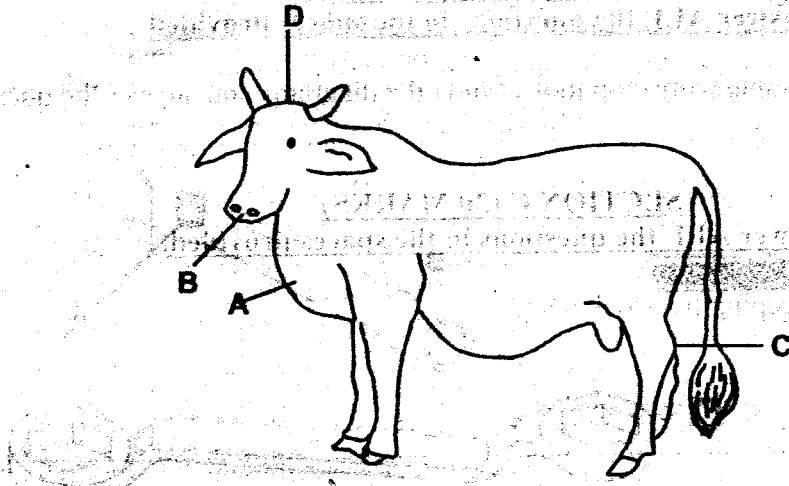
d) State the function of part X in the tool labelled B. (1 mark)

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14. State the physical features of a good dairy cow. (5 marks)

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15. Study the diagram of a cow shown below and answer the questions that follow.



a) Name the parts labelled A, B, C and D. (4 marks)

A ..... B .....

C ..... D .....

b) Name the **four** parts of the cow that are preferred by a two host tick. (4 marks)

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c) Give an outline on the procedure to follow when hand spraying for effective use of an acaricide in the control of ticks. (10 marks)

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