

NAME: ..... INDEX NO: .....

SCHOOL: ..... DATE: .....

CANDIDATE'S SIGNATURE : .....

443/2  
AGRICULTURE  
PAPER 2  
JULY / AUGUST 2016  
TIME: 2 HOURS

- 2016

Kenya Certificate of Secondary Education (K.C.S.E.)

AGRICULTURE

PAPER 2

FORM 3

**INSTRUCTIONS TO CANDIDATES:**

- (a) Write your **Name, School and Index number** in the spaces provided above.  
(b) **Sign** and write the **date** of examination in the spaces provided above.  
(c) This paper consists of **THREE** sections **A, B and C**.  
(d) Answer **ALL** questions in Section **A and B**.  
(e) Answer any **TWO** questions in section **C**.  
(f) Answers should be written in the spaces provided.  
(g) This paper consists of **8** printed pages.  
(h) Candidates should check the question paper to ascertain that all the pages are printed as indicated and no questions are missing.

**FOR EXAMINER'S USE ONLY**

SECTION	QUESTIONS	MAX. SCORE	CANDIDATE'S SCORE
A	1 – 16	30	
B	17 – 20	20	
C	21	20	
	22	20	
	23	20	
<b>Total Score</b>		<b>90</b>	



**SECTION A (30 MARKS)**  
**Answer ALL Questions in the Spaces Provided**

1. Differentiate between the term soil texture and soil structure. (1mk)

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2. Name **two** categories of plant nutrients. (2mks)

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3. State **four** factors a farmer should consider before choosing the farming system to undertake. (2mks)

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4. List **four** ways in which temperature affects agricultural production. (4mks)

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5. Give **four** conditions under which shifting cultivation is practicable. (2mks)

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6. State **four** negative effects of strong wind in Agriculture. (2mks)

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7. Outline **four** factors that determine the depth at which seed should be planted. (2mks)

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8. Give four demerits of mulching. (2mks)

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9. Outline four reasons why sub soiling is carried out on a seed bed. (2mks)

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10. Define elasticity of demand. (½mk)

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11. Give the normal chemical composition of clean milk. (2½mks)

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12. State four harmful effects of tick in a cow. (2mks)

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13. Mention any four reasons for maintaining tool equipment. (2mks)

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14. Define the term 'in breeding'. (2mks)

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5. State **four** agricultural activities that make agriculture an art. (2mks)

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16. (a) What is land fragmentation? (1mk)

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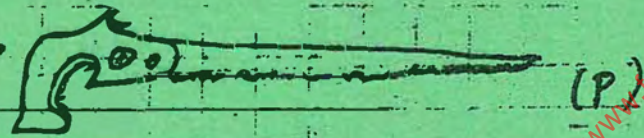
(b) Name the main **two** land tenure systems. (1mk)

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**SECTION B (20 MARKS)**

**Answer all questions in the spaces provided in this section**

17. Study the diagrams below and answer the questions that follow.



(a) Name the tools illustrated above. (1mk)

P:.....

O:.....

(b) State **one** use of each of the above tools. (2mks)

P:.....

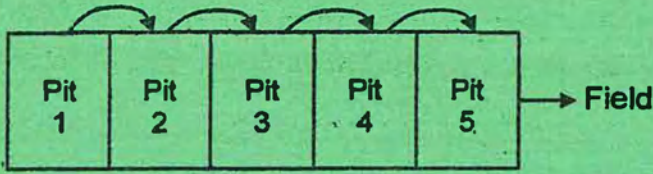
O:.....

(c) State **two** maintenance practices carried out on tool O. (2mks)

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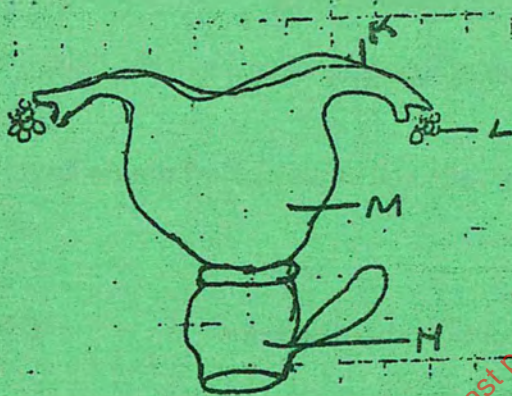


The following diagram shows a method of compost preparation.



- (a) Identify the above method. (1mk)
- .....
- (b) Give two factors that should be considered when siting the compost pit. (2mks)
- .....
- .....
- (c) State two factors that determine the time the manure would be ready for use in the field. (2mks)
- .....
- .....

The diagram below shows the female reproductive system of a cow. Use it to answer the questions that follow.



- (a) Name the parts labelled K, L, M and N. (2mks)
- K: .....
- L: .....
- M: .....
- N: .....
- (b) State the functions of the parts labeled K, L and M. (3mks)
- K: .....
- L: .....
- M: .....



20. (a) Give **four** reasons for seasoning timber before use. (2mks)

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(b) Outline **four** methods used to treat timber for building and construction. (2mks)

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(c) State **two** advantages of using wood when constructing farm structures. (1mk)

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**SECTION C (40 marks)**

**Answer any two questions in the spaces provided**

21. (a) State and explain the factors considered when determining spacing of crops in the field. (12mks)

(b) Explain the various conservation measures used to maintain soil in a sloping farming land. (8mks)

22. Describe the various measures carried out in the field to control crop diseases. (20mks)

23. (a) Define the term soil fertility. (1mk)

(b) State and explain ways in which soil loses its fertility. (14mks)

(c) Give ways which can be used to maintain soil fertility. (5mks)

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