

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

SCHOOL..... CANDIDATE'S SIGNATURE.....

DATE.....

443/1  
AGRICULTURE  
PAPER 1  
JULY/AUGUST 2014  
TIME: 2 HOURS

**TRANS-NZOIA COUNTY JOINT EXAMINATION-2014**  
*Kenya Certificate of Secondary Education*

**AGRICULTURE**  
**PAPER 1**  
**TIME: 2 HOURS**

**INSTRUCTIONS TO CANDIDATES:**

- Write your name and index number in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- This paper consists of **THREE** Sections **A**, **B** and **C**.
- Answer all questions in Section **A** and **B**.
- Answer two questions in Section **C** in the spaces provided.

**FOR EXAMINER'S USE ONLY**

Section	Question	Maximum Score	Candidate's Score
<b>A</b>	<b>1 - 18</b>	<b>30</b>	
<b>B</b>	<b>19 - 22</b>	<b>20</b>	
<b>C</b>	<b>23 - 25</b>	<b>20</b>	
		<b>20</b>	
<b>Total Score</b>		<b>90</b>	

**SECTION A: (30 MARKS)**

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

1. State **four** reasons for planting potatoes in a ridged seedbed. (2 marks)

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2. Name **two** types of inventory records. (1 mark)

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3. State **two** conditions under which seeds are seeded at a high seed rate. (2 marks)

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4. Mr. Ngare was advised to apply 150kg CAN/ha while topdressing the maize crop. Calculate the amount of nitrogen applied per hectare if CAN contains 20% nitrogen. (2 marks)

5. Name **two** propagation materials used in the establishment of pineapples. (1 mark)

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6. State **four** reasons for pruning. (2 marks)

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7. Give a term used to mean a market condition where:-

(i) there is a sole seller \_\_\_\_\_ (1 mark)

(ii) there is a sole buyer \_\_\_\_\_ (1 mark)

8. Outline **four** advantages of mixed farming. (2 marks)

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9. What is organic farming? (1 mark)

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10. Outline **four** information contained in a title deed. (2 marks)

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11. State **three** problems facing Agriculture in Kenya. (1½ marks)

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12. State **four** factors that determine the quality of tomatoes. (2 marks)

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13. Give **four** characteristics of large scale farming system. (2 marks)

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14. What are the reasons for forage conservation? (2 marks)

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15. State the **three** aspects of light that affect crop production. (1½ marks)

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16. Differentiate between a partial budget and a complete budget. (2 marks)

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17. State **two** problems that may be brought by a hard pan. (1 mark)

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18. What are the reasons for inoculating legume seeds before planting? (1 mark)

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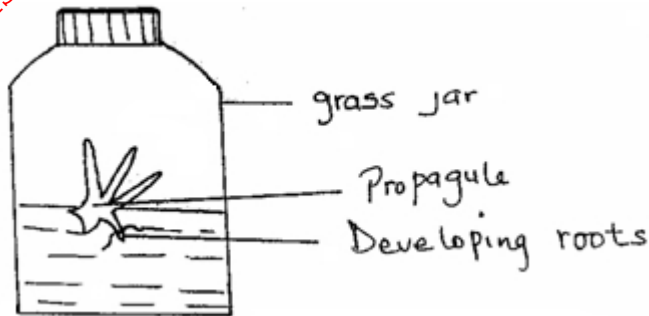
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**SECTION B: (20 MARKS)**

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

19. The diagram **below** illustrates a method of crop propagation.



(a) Identify the method of propagation. (1 mark)

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(b) Name a common crop propagated through the method. (1 mark)

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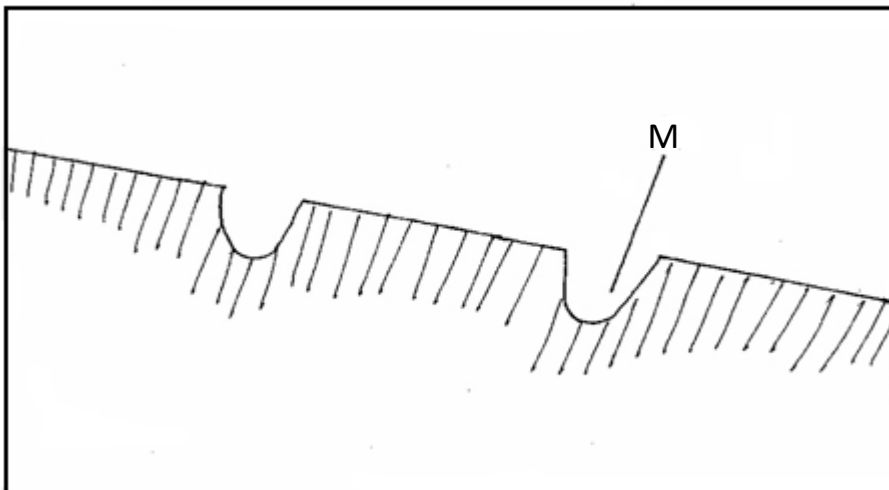
(c) Name **three** advantages of this method. (3 marks)

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20. The diagram **below** is a type of a terrace.



(a) Name the type of terrace illustrated above. (1 mark)

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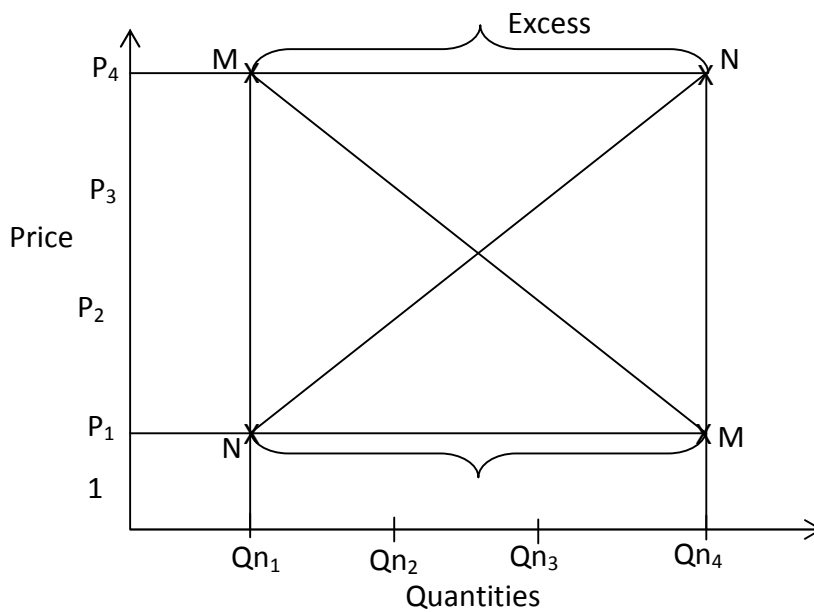
(b) Give the name of the part labeled **M** in the diagram. (1 mark)

**M** \_\_\_\_\_

(c) State the limitations of this terrace. (1 mark)

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

21. Below is a graph showing the relationship between Demand and Supply in price determination.



(a) Name the curve **M** and **N**. (1 mark)

**M** \_\_\_\_\_

**N** \_\_\_\_\_

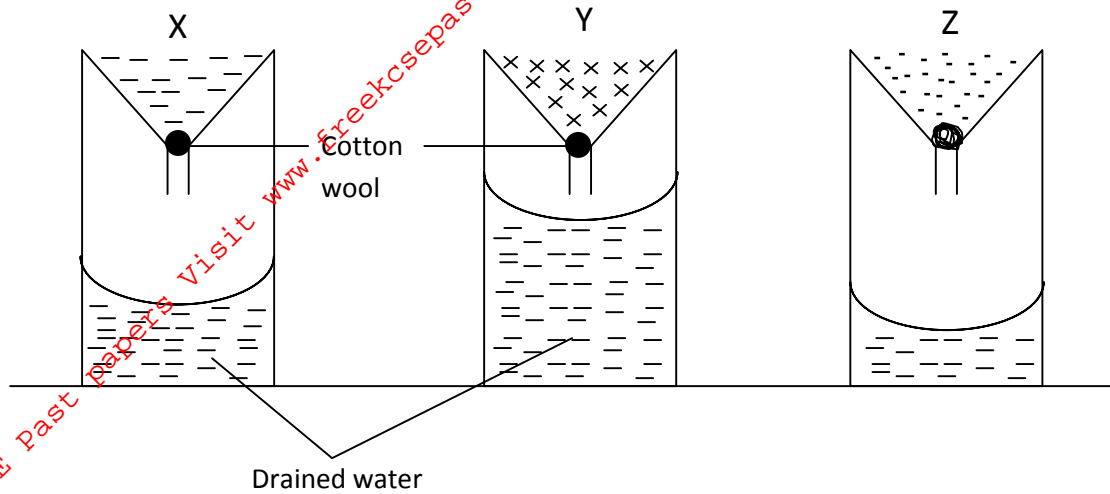
(b) State the name given to the point where the **two** curves **M** and **N** intersect. (1 mark)

\_\_\_\_\_  
 \_\_\_\_\_

(c) Give **two** reasons why there is excess supply above  $P_4$ . (2 marks)

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

22. The experiment **below** was set to compare the porosity and water holding capacity of three different types of soils.



- (i) Identify the soils in each of the following funnels labeled. (1½ marks)

**X** \_\_\_\_\_

**Y** \_\_\_\_\_

**Z** \_\_\_\_\_

- (ii) Which of the types of soil can be said to have the highest porosity rate? (½ mark)

\_\_\_\_\_

- (iii) Give reasons for your answers in (ii) above. (2 marks)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- (iv) Which type of soil would be suitable for planting paddy rice? (1 mark)

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### **SECTION C: (40 MARKS)**

Answer any **two** questions from this section in the spaces provided after the section.

23. (a) Discuss the production of maize for grain production from land preparation to harvesting. (20 marks)
24. (a) Outline **six** benefits for practicing minimum tillage. (6 marks)
- (b) Give the **main** reasons for practicing crop rotation. (6 marks)
- (c) Outline the benefits of primary cultivation. (4 marks)
- (d) Outline **four** importance of organic matter in the soil. (4 marks)





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