

Name..... Index no:..... Adm
no:.....

Class:.....Candidate's Signature Date:
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443/1

AGRICULTURE

Time: 2Hours

KAMDARA JET -2016

INSTRUCTION TO CANDIDATES

- Write your **name** and **index** number and school 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** the questions in section **A** and **B**.
- Answer **TWO** questions in section **C** in the spaces provided
- The paper has 13 printed pages.

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-16	30	
B	17-20	20	
C	21-23	20	
		20	
TOTAL MARKS		70	

SECTION A (30MKS)

Answer All the question in this section in the spaces provided.

1. List four farming practices that help to reduce the effect of water shortage in crops.
(2mks)
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2. State four main characteristics of shifting cultivation. (2mks)
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3. State the importance of sub soiling (1mk)
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4. List three advantages of tissue culture (1 ½ mks)
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5. State two benefits of optimum soil temperature in crop production. (1mk)
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6. Give four soil factors that influence soil productivity. (2mks)
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7. Give three characteristics of fixed inputs (1 ½ mks)

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8. State four factors which determine the depth of ploughing. (2mks)

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9. Give two main methods of conveying water from place to place. (2mks)

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10. Differentiate between seed dormancy and seed viability (2mks)

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11. State any four factors that determine the spacing of a crop (2mks)

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12. Explain the meaning of the following terms as used in pasture establishment

(i) Topping (1 mk)

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(ii) Ley pasture . (1mk)

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(iii) Rest period (1mk)

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13. a) Give three causes of blossom end rot in tomatoes (1 ½ mks)

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.....

b) State one method of controlling blossom end rot in tomatoes (½mk)

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14. Define the terms

a) Afforestation (1mk)

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.....

b) Re-afforestation (1mk)

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15. State four factors that contribute to the competitive ability of weeds. (2mks)

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16. State four types of micro catchments (2mks)

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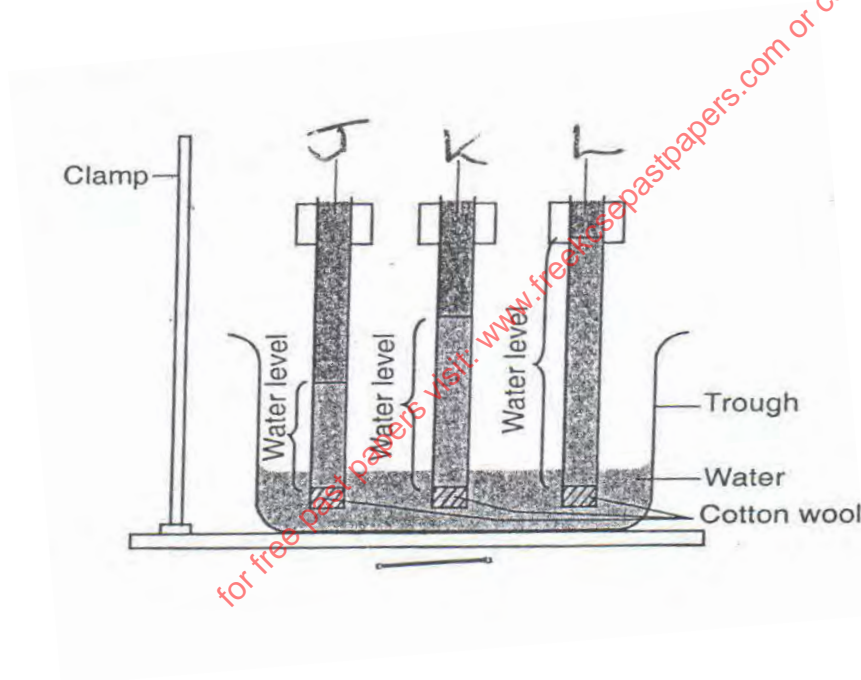
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SECTION B (20MKS)

Answer ALL questions in this section in the spaces provided

17. The diagram below shows an illustration on a property of soil using soil samples labeled J, K and L



- (a) The levels of water were observed after 2 hours, name the property of soil being investigated. (1 mark)

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- (b) List two properties of soil J. (2 marks)

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(c) Which soil would be suitable for growing paddy rice? Give a reason for your answer.

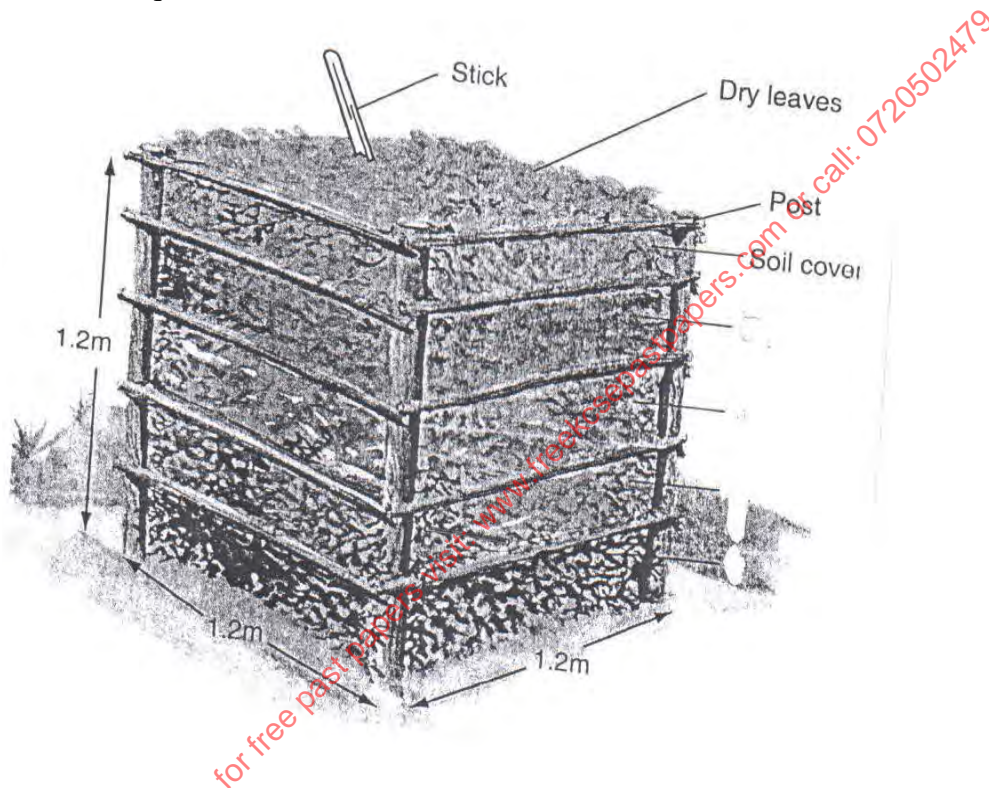
(2 marks)

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18. Study the diagram below of a method of compost making and answer the questions that follow,



(a) Identify the methods of compost making

(1 mark)

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.....

(b) State four factors to consider when sitting the structure

(2marks)

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(c) What is the function of the following materials in preparation of compost manure:

(i) Top soil

(1 mark)

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(ii) Wood ash

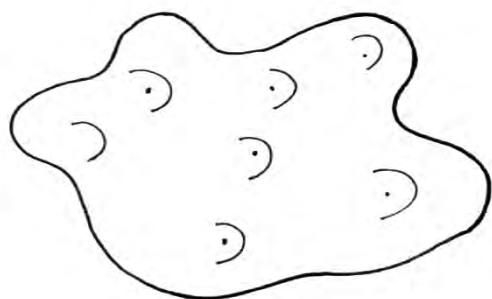
(1 mark)

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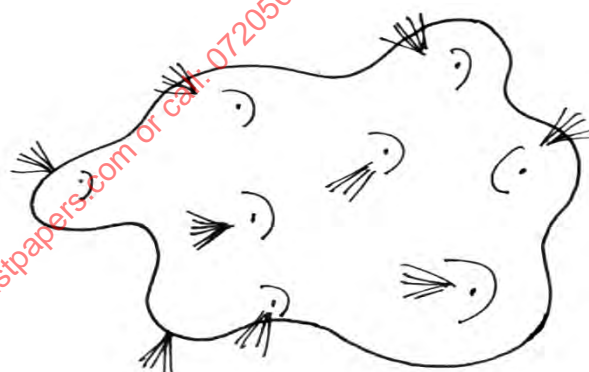
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19. Below are two diagrams of Irish potato tubers after being subjected to some conditions before planting.

D1



D2



Before subjecting to the conditions

After subjecting to the conditions

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(i) Which process of potato treatment is illustrated above?

(1mk)

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(ii) State **two** conditions necessary for the above process.

(2mks)

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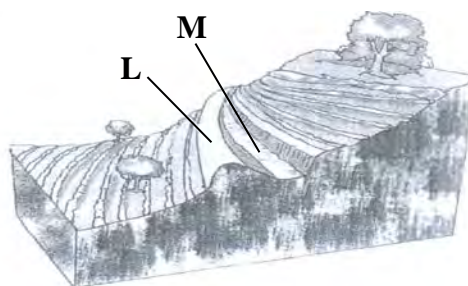
(iii) Give **two** reasons for carrying out the above practice.

(2mks)

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20. The illustration below shows a structure used in soil and water conservation



- (a) Identify the structure (1mk)

 (b) Identify parts labelled **L** and **M** in the structure. (2mks)

 (c) How can part labelled **L** be stabilized after it has been constructed. (1mk)

 (d) State any **one** factor that would determine the width and depth of the structure. (1mk)

SECTION C (40MKS)

Answer any **TWO** questions in this section in the spaces provided after question 22

21. a). Describe the field production of dry beans under the following sub headings
- i). Planting (5mks)
 - ii) Weed control (2mks)
 - iii) Harvesting (5mks)
- (b) Describe four effects of land fragmentation and sub-division. (8mks)
22. (a) Explain **five** advantages of budgeting in farming (10mks)
- (b) Explain **five** various types of risks and uncertainties (5mks)
- (c) Describe the importance of pruning perennial crops (5mks)
23. a). Describe the effects of liberalization of agricultural markets to farming in Kenya (10mks)
- b). Explain how price is determined in a free market situation (3mks)
- c). with examples explain how government policies affect agricultural production (7mks)

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