

**SECTION A (30 marks)**

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

- 1** State **four** advantages of mixed farming. (2 marks)

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- 2** State **four** ways in which activities of earthworms improve soil fertility. (2 marks)

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- 3** Give **three** ways in which organic mulch helps to conserve water in the soil. (1½ marks)

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- 4** State **four** reasons why resettlement is an important land reform in Kenya. (2 marks)

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- 5** Give **four** reasons why a cotton farmer should keep up-to-date labour records. (2 marks)

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6 State **four** characteristics of a good site for a vegetable nursery bed. (2 marks)

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7 Give **four** ways of controlling striga weed (*Striga hermonthica*) in millet production. (2 marks)

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8 State **four** reasons for top dressing napier grass. (2 marks)

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9 Give **four** reasons for training tomato plants. (2 marks)

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10 State **four** factors that determine the time at which a bean crop is harvested. (2 marks)

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- 11 What is meant by each of the following terms as used in maize production? (1 mark)
- (a) Hybrid;
- .....
- .....
- (b) Composite. (1 mark)
- .....
- .....
- 12 Give four reasons why triple superphosphate (TSP) fertilizer is applied during planting. (2 marks)
- .....
- .....
- .....
- .....
- 13 State four maintenance practices for a drip irrigation system on a farm. (2 marks)
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- .....
- .....
- .....
- 14 State four characteristics of a good agroforestry tree species. (2 marks)
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- .....
- .....
- .....
- 15 State five operations carried out during land clearing. (2½ marks)
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**SECTION B (20 marks)**

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

**16** The following diagram shows a type of planting material.



**(a)** Identify:

**(i)** the type of planting material;

**(1 mark)**

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**(ii)** the method of propagation that uses the type of planting material shown in the diagram;

**(1 mark)**

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**(iii)** a crop propagated using the planting material shown in the diagram.

**(1 mark)**

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**(b)** Give **two** advantages of using the planting material shown in the diagram.

**(2 marks)**

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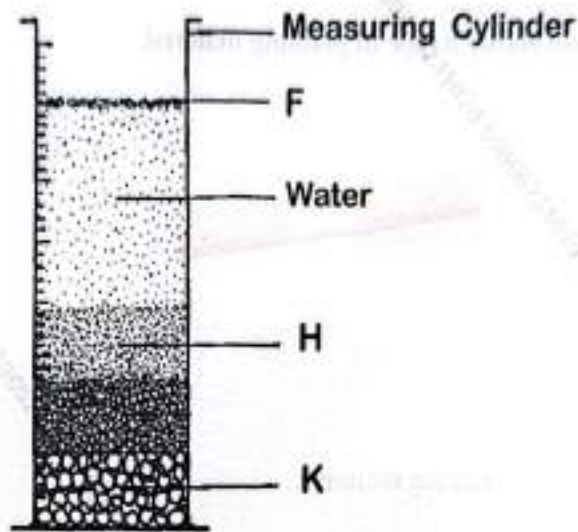
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17 The following diagram shows an experimental set-up used to investigate property of a soil sample.



(a) What was the aim of the experiment? (1 mark)

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(b) What is represented by:

H ..... (1 mark)

K ..... (1 mark)

(c) State two important roles of the component labelled F. (2 marks)

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18 The following diagram shows a type of soil erosion.



(a) Identify the type of soil erosion.

(1 mark)

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(b) Give **two** reasons why the type of soil erosion shown in the diagram is **not** likely to occur in an area planted with grass.

(2 marks)

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(c) Give **two** ways in which tree planting controls the type of soil erosion shown in the diagram.

(2 marks)

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19 The following diagram shows a method of manure preparation.



(a) Identify the:

(i) method of manure preparation shown in the diagram.

(1 mark)

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(ii) type of manure prepared using the method shown in the diagram.

(1 mark)

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(b) Describe how the manure is prepared using the method shown in the diagram. (3 marks)

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**SECTION C ( 40 marks)**

*Answer any two questions from this section in the space provided after question 22.*

- 20**
- (a) Explain five precautions taken during the harvesting of tea. (5 marks)
  - (b) Describe the procedure of collecting a soil sample from the field for testing. (6 marks)
  - (c) Explain how each of the following factors influence the ability of soil to support crop production:
    - (i) soil pH; (1 mark)
    - (ii) soil texture; (1 mark)
    - (iii) soil structure; (1 mark)
    - (iv) nutrient content. (1 mark)
  - (d) Give five reasons why irrigation is practised in crop farming. (5 marks)
- 21** Describe the production of tomatoes under the following sub-headings:
- (a) nursery management practices; (8 marks)
  - (b) transplanting; (5 marks)
  - (c) weed control; (3 marks)
  - (d) pest control; (2 marks)
  - (e) disease control. (2 marks)
- 22**
- (a) Explain five factors a farmer should consider when selecting farm enterprises. (10 marks)
  - (b) Give five roles of packaging in the marketing of agricultural products. (5 marks)
  - (c) State five pieces of information posted in a journal. (5 marks)