

KCSE PREDICTIONS 2019

AGRICULTURE PAPER 1

SECTION A (30 MARKS)

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

1. What is the importance of taking farm inventory? (1 mark)

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2. State **four** factors that determine the choice of a crop enterprise. (2 marks)

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3. Calculate the amount of P_2O_5 in 1000 kg of a compound fertilizer 20:10:10 (2 marks)

4. Give **four** farming practices leading to soil loss. (2 marks)

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5.a) What is organic farming? (½ mark)

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b) Give any **two** conditions that lead to small scale farming. (1 mark)

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6. List **three** factors that contribute to competitive ability of weeds. (1½ marks)

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7. State **three** ways in which pruning helps to control diseases in tomatoes. (1 mark)

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8.a) Give **three** ways through which minerals can be lost in the soil. (1 mark)

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b) State any **three** deficiency symptoms of phosphorous in crop production. (1 ½ mark)

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9. Give **four** reasons for using certified seeds for planting. (2 marks)

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10.a) State **three** effects of plant diseases on crop production. (1 ½ mark)

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b) Name **two** diseases of maize. (1 mark)

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11. List **four** functions of Coffee Board of Kenya. (2 marks)

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12.a) Define the term land reform. (½ mark)

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b) State **three** advantages of land consolidation (1 ½ mark)

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13.a) Distinguish between a dam and a weir. (1 mark)

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b) Give any **four** cultural methods used in soil and water conservation. (2 marks)

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14. Differentiate between hybrids and composites as used in maize breeding. (1 mark)

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15. What is rogueing as used in crop production. (½ mark)

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16. State **three** reasons why a farmer should diversify his farm enterprises. (1 ½ mark)

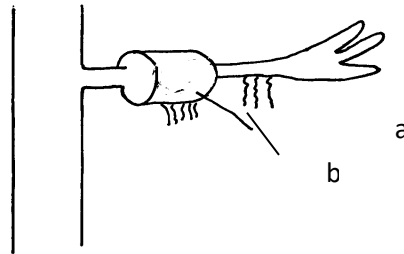
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17. State **four** advantages of organic mulches. (2 marks)

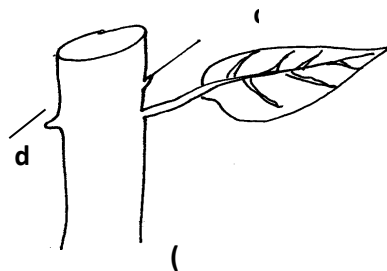
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SECTION B (20 MARKS)

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

18. Study the illustration below and answer the questions underneath.



(i)



a) Identify the above illustrations

(1 mark)

i)

ii).....

b) Name the parts labelled a,b,c and d

(2 marks)

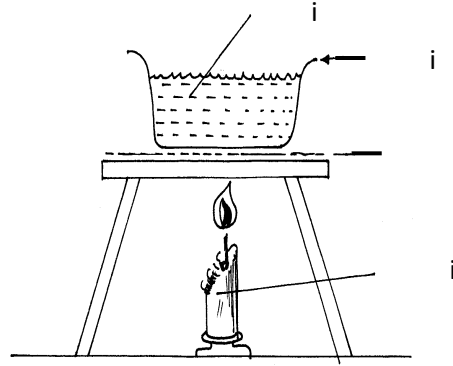
a) c)

b)..... d).....

c) Name **two** other methods of vegetative propagation in each case give an example of a crop propagated using the method. (2 marks)

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19. The diagram below shows a set up of apparatus for finding the percentage of humus contents in a soil by ignition.



a) Label the apparatus

(2 marks)

- i)
- ii)
- iii).....
- iv)

b) Outline the steps followed in carrying out the illustrated experiment.

(3 marks)

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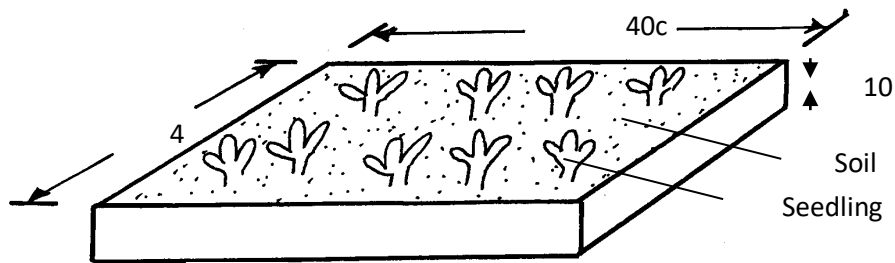
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20. Observe the following diagrams and answer the questions that follow.



a) i. Name the type of structure above used to prepare seedlings.

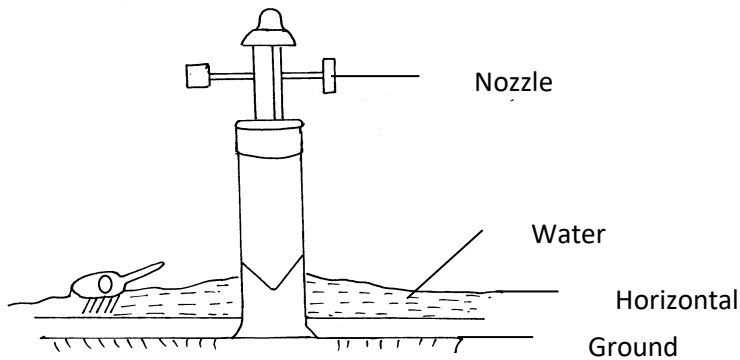
(1 mark)

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ii. State **three** advantages of this method of preparing seedlings. (1 1/3 marks)

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b)i. After sowing seeds give two practices carried out before seedling germinate. (1 mark)

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ii. Give **three** management practices that should be carried out to increase the survival of seedling in the seedbed before transplanting. (1 1/2 marks)

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21. Study the diagram below and answer the questions that follow.



a) Name the method of irrigation illustrated above. (1/2 mark)

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b) State **two** advantages of this method of irrigation. (1 mark)

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c) State **three** problems encountered by farmers using this method of irrigation (1 1/2 marks)

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d) Give **four** factors which determine the choice of the method named in (a) above. (2 marks)

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SECTION C (40 MARKS)

Answer any two questions in this section in the spaces provided after question 24.

- 22.a) Describe field production of tomatoes under the following sub-headings.
- i) Ecological requirements (5 marks)
 - ii) Land preparations (4 marks)
 - iii) Transplanting (7 marks)
 - iv) Disease control (4 marks)

23.a) Outline the factors a farmer would consider before selecting a farm enterprise to undertake.(10 marks)

- b) The farm manager of Kilimo farm made the following purchases in December 2004.
- Seeds and fertilizers 2,500/=
 - disc plough 80,000/=
 - Fuel 5,000/=
 - Poultry feeds 4,500/= and
 - Cattle drugs 2,000

During the year the farm sold maize to Njoro girls for 20,000; milk processor for Shs. 40,000. Kilimo farm also expected Shs. 8,000 from a prominent neighbouring farmer for ploughing the land. The opening valuation was Shs. 50,000 and closing valuation Shs. 80,000.

Using the information provided above, prepare Profit and Loss account for Kilimo farm. (10 marks)

24.a) Discuss factors that should be put into consideration while choosing suitable implements for primary cultivation. (10 marks)

- b) Describe how you would establish grass pasture seeds on land that is already ploughed using a Mouldboard plough, up to when the pasture is ready for grazing. (10 marks)
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