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

<table>
<thead>
<tr>
<th>Section</th>
<th>Question</th>
<th>Maximum Score</th>
<th>Candidate’s Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1 - 18</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>19 - 22</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>23 - 25</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Score</td>
<td></td>
<td>90</td>
<td></td>
</tr>
</tbody>
</table>
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)
   ________________________________________________________________________
   ________________________________________________________________________

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)
   ________________________________________________________________________
   ________________________________________________________________________
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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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.

![Diagram of grass jar with propagule and developing roots]

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

___________________________________________________________________________

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

___________________________________________________________________________

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

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

![Diagram of a terrace with M labeled]
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)

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(c) Give two reasons why there is excess supply above P₄. (2 marks)

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Agriculture Paper 1 6
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)

- ______________________________________________________________________

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)
25. (a) Describe five factors which influence Demand of a commodity in a perfect market situation. (10 marks)

(b) State and explain five marketing functions. (10 marks)