ELDORET EAST INTER - SCHOOLS TEST - 2013
(Kenya Certificate of Secondary Education) K.C.S.E

Instructions:

• Write your Name and Index Number in spaces provided above

• This paper consists of three sections A, B and C

• Answer all questions in section A, and B and any other two questions in section C in the spaces provided in this booklet

---

FOR EXAMINERS USE ONLY

<table>
<thead>
<tr>
<th>SECTION</th>
<th>QUESTION</th>
<th>MAX SCORE</th>
<th>CAN. SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1-22</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>23-28</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>29-31</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL SCORE 90
Section A (30 marks)

Answer ALL the questions in the spaces provided.

1. State three ways by which trees help in land reclamation. (1 ½ marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

2. Give two advantages of monoculture. (1 mark)

_________________________________________________________________________________

3. State three ways in which high environmental temperatures can be modified in crop production. (1 ½ marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

4. Name two methods which can be used to detect nutrient deficiency in crops. (1 mark)

_________________________________________________________________________________

5. State three factors which contribute to the success of settlement scheme. (1 ½ marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

6. a) What is marginal revenue? (½ mark)

___________________________________________________________________________

b) Explain any three characteristics of variable costs. (1 ½ marks)

___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

7. Give three symptoms of black rot disease in cabbage. (1 ½ marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

8. State three effects of riverbank erosion. (1 ½ marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

9. Differentiate between obligate parasites and facultative parasites. (½ marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
10. Name **four** examples of leguminous fodder crops. (2 marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

11. Give **three** functions of sulphur in crops. (1 ½ marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

12. State **three** benefits of large scale farming. (1 ½ marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

13. State **three** practices that could be carried out to maximize the use of nitrogen fertilizer in a maize crop. (1 ½ marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

14. List **four** environmental factors that affect crop distribution in Kenya. (2 marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

15. Give **two** advantages of biological method of weed control. (1 mark)

_________________________________________________________________________________

16. Define integrated pest management. (IPM) (½ mark)

_________________________________________________________________________________

17. State **four** disadvantages of tenancy system in farming. (2 marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

18. State **three** roles of water in a rice field. (1 ½ marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
19. Give three reasons for subsoiling in land preparation. (1 ½ marks)

_________________________________________________________________________________

_________________________________________________________________________________

_________________________________________________________________________________

20. In what ionic form is phosphorus absorbed by plants? (1 mark)

_________________________________________________________________________________

21. What is “changing the cycle” in coffee growing? (½ mark)

_________________________________________________________________________________

_________________________________________________________________________________

_________________________________________________________________________________

22. State three importance of a household in agricultural production economics. (1 ½ marks)

_________________________________________________________________________________

_________________________________________________________________________________

_________________________________________________________________________________

SECTION B. (20 MARKS)

Answer ALL questions in this section in the spaces provided.

23. The diagram below illustrates a method of crop propagation. Study it and answer the questions that follow.

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

_________________________________________________________________________________

b) State two disadvantages of using this method of propagation (2 marks)

_________________________________________________________________________________

_________________________________________________________________________________

_________________________________________________________________________________
24. Describe the procedure of determining soil texture through the sieve method. (2½ marks)

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

25. The diagram below shows a type of soil erosion. Study it carefully and answer the questions that follow.

a) Name the type of soil erosion shown above? (1 mark)
___________________________________________________________________________

b) State three factors that influence the type of soil erosion shown above. (3 marks)
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

26. Below is an illustration of a young citrus tree.

© EIST 1st term 2013 Agriculture P1-Form F4
27. a) State three disadvantages of tillage in weed control. (3 marks)

b) Identify three methods in which herbicides kill weeds. (3 marks)

28. State three uses of a microcatchment. (1 ½ marks)

SECITON C (40 MARKS)

Answer any TWO questions from this section in the spaces provide after question 31

29. a) Describe the establishment of grass pasture from the time the land is ploughed to the time the pastures is ready for grazing. (10 marks)

b) Describe the procedure of harvesting coffee. (5 marks)

c) State and explain any five ways through which soil loses fertility. (5 marks)

30. a) Explain the importance of land preparation. (7 marks)

b) Describe the procedure which should be followed in spraying a fungicide in powder form using a knapsack sprayer. (8 marks)

c) Describe the ecological requirements of onions (Allium cepa) (5 marks)

31. a) State five observable indicators of economic development of a nation. (5 marks)

b) Explain five characteristics of land as a factor of production (5 marks)

c) Outline seven types of information contained in a title deed. (7 marks)

d) State three factors that determine the method of harvesting crops. (3 marks)