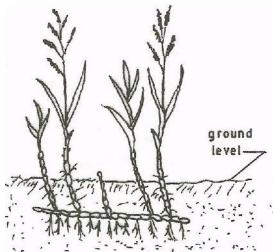
K.C.S.E YEAR 2010 PAPER 1

| | SECTION A (30 marks) | | |
|-----|--|---------------------------------|--|
| Ans | swer all the questions in this section in the spaces provided. | | |
| 1 | Give two disadvantages of intensive system of fanning. | (1 mark) | |
| 2 | | | |
| 3 | Give the meaning of the following terms: | | |
| | (a) Nitrogen fixation into the soil; | (1 mark) | |
| | (b) Phosphorus fixation in loss of soil fertility. | (1 mark) | |
| 4. | Give four reasons-for keeping livestock health records on the farm. | (2 marks) | |
| 5. | Explain the relationship between scarcity and choice as used in agricultural economic | es. (2 marks) | |
| 6. | State two reasons for land fragmentation in Kenya. | (1 mark) | |
| 7. | Give four advantages of individual owner operator tenure system as practised in K | enya. (2 marks) | |
| 8. | State four features that should be considered when choosing water pipes for use on | the farm. (2 marks) | |
| 9. | Give four reasons for treating water for use on the farm. | (2 marks) | |
| 10 | Name four statutory boards that are involved in the marketing of crop produce in K | enya. (2 marks) | |
| 11 | State four marketing functions of Kenya Co-operative Creameries (K.C.C.). | (2 marks) | |
| 12 | Give two reasons for carrying out each of the following operations in land preparation | on: | |
| | (a) rolling; | (1 mark) | |
| | (b) levelling. | (1 mark) | |
| 13 | Name three recommended practices that should be carried out when clearing the bush | h during land | |
| | preparation. | $(1 \frac{1}{2} \text{ marks})$ | |
| 14 | State five advantages of zero grazing. | $(2\frac{1}{2} \text{ marks})$ | |
| 15 | Give four factors that would determine the stage at which a crop is harvested. | (2 marks) | |
| 16 | Name two classes of weeds on the basis of each of the following: | (1 mark) | |
| | | (1 | |
| | (a) growth cycle; | (1 mark) | |
| | (b) plant morphology | (1 mark) | |

SECTION B (20 marks)

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

Below is a diagram of a weed. Study the diagram carefully and answer the questions that follow.



- (a) Identify the weed illustrated above. (1/2 mark)
- (b) Why is the weed illustrated above difficult to control?
- (c) State **four** ways in which the weed can be controlled in a field of maize.
- 18. The table below shows pH values of different soil samples. Study it and answer the questions that follow.

| | Soil Sample | <u>pH value</u> | |
|-----|--------------------------------------|-----------------|--|
| | \mathbf{S}_1 | 3 | |
| | S_2 | 4 | |
| | S_3 | 5 | |
| | S_4 | 6 | |
| | S_5 | 7 | |
| | S_6 | 8 | |
| | S_7 | 9 | |
| | \mathbf{S}_{8} | 10 | |
| (a) | Which soil sample has the highest ac | (1/2mark) | |
| (b) | State two ways in which the pH valu | (1 mark) | |
| (c) | Which of the above soil samples is s | (1/2 | |

mark)

(b)

- **19** Explain how agro forestry tree seeds should be prepared after collection in readiness for planting.
- 20. (a) The diagrams below represent two ways in which a crop was pruned. Study them carefully and answer the questions that follow.





- (i) Which diagram represents the correct way of pruning?
- (ii) Give a reason for your answer in (i) above.
 - State **two** ways in which pruning assists in controlling crop diseases. (1 mark)
- 21 On 1st January 2009, Kaburu Farm started farm operations with Ksh 30,000 cash. During the month, the farm made the following transactions. Study the transactions and prepare a cash analysis for Kaburu Farm for the month of January. (5 *vT*. marks)

| Date | Transaction | Amount (Ksrri | |
|----------|---|---------------|--------|
| 05/01/09 | Livestock sales | | 80,000 |
| 08/01/09 | Crop sales | | 50,000 |
| 15/01/09 | Bought seed for planting | | 7,500 |
| 20/01/09 | Paid K.F.A. for fertilizer | | 16,400 |
| 25/01/09 | Bought livestock feeds | | 50,000 |
| 30/01/09 | Paid wages for planting & weeding | | 56,000 |
| 31/01/09 | Received cash from K.C.C. for milk delivery | 120,000 | |

 $\binom{l}{i}$ mark) (1 mark)

(4 marks)

(1 marks)

(2 marks)

| | | 31/01/09 | Paid transport charges for milk delivery | 9,000 |
|----|----------------------|--|---|---------------------------------|
| 22 | (a) (b) | Ũ | antity of filler materials in the fertilizer in (a) above. | (11 marks) (1 mark) |
| | | | SECTION C (40 marks) questions in this section in the spaces provided after | |
| 23 | (a) H (b) (c) | Describe the seve after sowing se | rs that can encourage soil erosion n management practices that should be carried out o eds until the seedlings are ready for transplanting. ctors that should be considered when selecting a cro | (7 marks) |
| 24 | | | n which high temperature affects agricultural produc | |
| | (b) (i) (i (c) | i) Describe the h | ecautions that should be observed when harvesting of arvesting of sugar cane. tors that should be considered when planning to set | (3 marks) |
| 25 | (a) (b) | Describe the pro | cal methods that can be used to control crop pests or oduction of bulb onions under the following sub-hea | n the farm. (6 marks) dings: |
| | (c) | (i) field man(ii) harvestinExplain seven | | |