

Name... ..

Index No... .. /... ..

School... ..

Date ... ..

Candidate's Signature... ..

443/1  
A G R I C U L T U R E  
Paper 1  
Time: 2 Hours  
TRIAL 6  
Form 3

2018

Kenya Certificate of Secondary Education (K.C.S.E)

443/1  
A G R I C U L T U R E  
Time: 2 Hours  
Form 3

INSTRUCTIONS TO CANDIDATES

1. This paper consists of Three Sections A, B and C.
2. Answer all the questions in Section A and B and any two questions from Section C.

FOR EXAMINER'S USE ONLY

| SECTION     | QUESTION | MAX. SCORE | CANDIDATE'S SCORE |
|-------------|----------|------------|-------------------|
| A           | 1 - 18   | 30         |                   |
| B           | 19 - 21  | 20         |                   |
| C           | 22 - 24  | 20         |                   |
|             |          | 20         |                   |
| TOTAL SCORE |          | 90         |                   |

*This paper consists of 7 printed pages.  
Candidates should check the question paper to ensure that all pages are printed as indicated  
and no questions are missing*

SECTION A [30 MARKS]

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

1. Give four reasons why timely weed control is advisable in crop production. (2 marks)
  
2. State four disadvantages of use of vegetative propagation in bananas (2 marks)
  
3. Outline four functions of magnesium in crops. (2 marks)
  
4. State two conditions when you recommend fertilizer application by spraying method. (1 marks)
  
5. Name two macronutrients whose deficiency in crops causes chlorosis (1 mark)
  
6. State four characteristics of a good rootstock for grafting (2 marks)
  
7. Give four precautions observed in pruning mature tea (2 marks)

8. List four morphological features of plants that influence the selectivity of herbicides. (2 marks)

9. State four conditions that may lead to land subdivision in Kenya. (2 marks)

10. State two practices carried out to ensure field hygiene (1 mark)

11. State four roles of irrigation water in a rice field. (2 marks)

12. State four ways of classifying pests (2 marks)

13. What is solifluction erosion? (1 mark)

14. State four ways by which trees help in soil conservation. (2 marks)

15. Give four characteristics of materials used in the preparation of compost manure. (2 marks)

16. Give four benefits of a good soil structure in crop production. (2 marks)

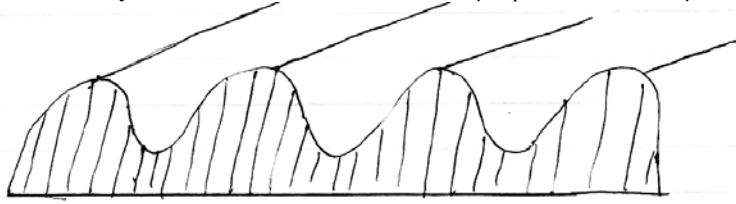
17. State four objectives of land tenure reform. (2 marks)

for free past papers visit: [www.freekcsepastpapers.com](http://www.freekcsepastpapers.com)

SECTION B (20 MARKS)

Answer all questions in the spaces provided in this section

18. The diagram below illustrates a tertiary operation. Study it and answer the questions that follow.

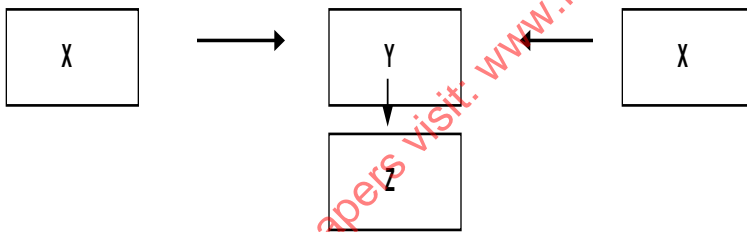


(i) Identify the tertiary operation. (½ mark)

(ii) State three reasons for carrying out the above tertiary operation. (1½ mark)

(iii) Other than the above tertiary operation, name two other tertiary operation. (1 mark)

19. The illustration below represents a method used in preparation of a compost manure.



(iv) Name the method illustrated above. (1 mark)

(v) Name the crop in which the use of the manure is most appropriate. (1 mark)

(vi) State three indicators to show that the manure is ready for use in the farm. (3 marks)

20. Study the record below and use it to answer the questions that follow.

|                      |                     |
|----------------------|---------------------|
| Season:.....         | Field No. ....      |
| Crop grown:.....     | Net area:.....      |
| Ploughing date:..... | Variety;.....       |
| Inputs:.....         | Planting date:..... |
| Remarks:.....        |                     |

(a) Identify the farm record represented above. (1 mark)

(b) What other two pieces of information may be contained in the farm record above? (1 mark)

(c) Why is it important for a farmer to keep such a record in the farm? (1 mark)

21.



(i) Identify the above weed. (1 mark)

(ii) Classify the weed according to its lifespan. (1 mark)

(iii) State two reasons why the weed should be controlled. (2 marks)

22. The diagrams below represents tomato fruits.



R

S



(a) Which of the diagrams represents tomato variety for?

(i) Processing (1 mark)

(ii) Fresh market. (1 mark)

(b) State two importance of the above vegetable to a farmer. (2 marks)

(c) Give two effects of too much nitrogen on tomato fruits. (1 mark)

**SECTION C (40 MARKS)**

Answer only two questions in this section in the spaces provided.

23. a) Describe the methods used in preparing materials in readiness for planting. (8 marks)

b) Explain the factors that may determine spacing of crop in the farm (8 marks)

c) Explain briefly the factors that influence timely planting. (4 marks)

24. a) Describe ten safety precautions that should be taken when using herbicides to control weeds. (10 marks)

b) Explain ten farming practices which help to conserve soil on a farm. (10 marks)

25. Describe the production of kales under the following sub-heading.

(a) Nursery bed siting (4 marks)

(b) Nursery bed preparation (4 marks)

(c) Nursery management (7 marks)

(d) Transplanting (5 marks)

for free past papers visit: [www.freekcsepastpapers.com](http://www.freekcsepastpapers.com)



for free past papers visit: [www.freekcsepastpapers.com](http://www.freekcsepastpapers.com)

for free past papers visit: [www.freekcsepastpapers.com](http://www.freekcsepastpapers.com)

for free past papers visit: [www.freekcsepastpapers.com](http://www.freekcsepastpapers.com)

for free past papers visit: [www.freekcsepastpapers.com](http://www.freekcsepastpapers.com)