

Name _____ Index No: _____

443/1
AGRICULTURE
JULY/AUGUST 2010
PAPER 1
2 HOURS

FORM FOUR MID-YEAR CONTINUOUS ASSESSMENT TEST
Kenya Certificate of Secondary Education
AGRICULTURE
PAPER 1
2 HOURS

INSTRUCTION TO CANDIDATES

- a) Write your name and index/ Admission number in the spaces provided above
- b) This paper consists of three sections A B and C
- c) Answer ALL the questions in section A and B; answer any Two questions in section C

For Examiner's use only

Section	Questions	Maximum score	Candidate's score
A	1-20	30	
B	21-24	20	
C		20	
		20	
		Total score	

This paper consists of 7 printed pages

Please Turn Over

SECTION A

Answer ALL the questions in this section in the spaces provided

1. State three disadvantages of row planting in crops establishments (1 ½ mks)
(i) _____
(ii) _____
(iii) _____
2. What do you understand by the term “organic farming” (1mk)

3. State three factors that determine spacing in maize (1 ½ mks)
(i) _____
(ii) _____
(iii) _____
4. Give three factors that influence soil productivity (1 ½ mks)
(i) _____
(ii) _____
(iii) _____
5. Give three conditions of the land which may make it necessary to carry out reclamation practices (1 ½ mks)
(i) _____
(ii) _____
(iii) _____
6. State four practices which encourage soil erosion (2mks)
(i) _____
(ii) _____
(iii) _____
(iv) _____
7. State four objectives of land settlement which have been undertaken in Kenya (2mks)
(i) _____
(ii) _____
(iii) _____
(iv) _____
8. Give three factors that influence the supply of a commodity in a free market (3mks)
(i) _____
(ii) _____
(iii) _____
(iv) _____

9. Give four benefits of using polythene sleeves in raising seedlings (2mks)
- (i) _____
 - (ii) _____
 - (iii) _____
 - (iv) _____
10. Differentiate between a purchase order and a delivery note (1mk)
- _____
- _____
- _____
11. What is the role of agriculture in Kenya's industrial growth and development (1 ½ mks)
- (i) _____
 - (ii) _____
 - (iii) _____
12. List two methods of drainage used on the farm (1mk)
- (i) _____
 - (ii) _____
13. State four disadvantages of pastoral nomadism (2mks)
- (i) _____
 - (ii) _____
 - (iii) _____
 - (iv) _____
14. State two financial statements that should be drawn on a farm (1mk)
- (i) _____
 - (ii) _____
15. Give two reasons for treating seeds (1mk)
- (i) _____
 - (ii) _____
16. State four factors influencing mass wasting (2mks)
- (i) _____
 - (ii) _____
 - (iii) _____
 - (iv) _____
17. Give two reasons for hardening off (1mk)
- (i) _____
 - (ii) _____

18. State three methods for land clearing (1 ½ mks)
- (i) _____
- (ii) _____
- (iii) _____
19. Give two advantages of silage making (1mk)
- (i) _____
- (ii) _____
20. Name two cropping systems that help in soil and water conservation (1mk)
- (i) _____
- (ii) _____

SECTION B (20MARKS)

Answer all the questions in this section in the spaces provided

21. The diagrams below illustrate sorghum varieties characterized by head shape. Study it carefully and answer the questions that follow.
- (i) (ii) (iii)

- (a) Identify the varieties (1 ½ mks)
- (i) _____
- (ii) _____
- (iii) _____
- (b) Apart from birds give two other pests that may attack sorghum (1mk)
- _____
- _____
- _____

(c) State two methods of controlling the above pests

(2mks)

22. The diagrams below illustrate two types of soil structures. Study them carefully and answer the questions that follow

A

B

(a) Identify the types of soil structures

(1mk)

A

B

(b) State two disadvantages of soil structure A over B

(2mks)

(c) Give three importance of soil structure in crop production

(1 ½ mks)

23. The diagrams below represents some weeds

A B

(a) Identify weed A and B (1mk)
Weed A

Weed B

(b) Name two methods used to control weed A (2mks)

(c) State two harmful effects of weed B in livestock (1mk)

(d) Give two factors contributing to the competitive ability of weed. A over other weeds (1mk)

24. A farmer was advised to apply 40kg/ha P_2O_5 in planting holes, 60kg/ha Nitrogen in top dressing and 60kg/ha K_2O in a Maize field. The available fertilizers were sulphate of ammonia 20% N, DSP 20% P_2O_5 and muriate of potash 50% K_2O .

(a) Calculate how much sulphate of ammonia and muriate of potash would be required in one hectare of land. Show your working. (3mks)

(b) State three reasons for soil testing (1 ½ mks)

(c) Give three methods for applying fertilizers (1 ½ mks)

SECTION C (40MKS)

Answer any Two questions in this section in the spaces provided at the back of question paper.

25. (a) Describe the production of Napier grass (*pennisetum purpurum*) under the following sub-headings.

(i) Varieties grown (2mks)

(ii) Selection and preparation of planting materials (3mks)

(iii) Planting and weeding (5mks)

(b) Describe the procedure of hay making (10mks)

26. (a) Describe methods of improving labour productivity (5mks)

(b) List common problems which have led to the collapse of many Cooperative societies in Kenya (8mks)

(c) Explain the functions of agricultural marketing boards (7mks)

27. (a) Explain factors affecting rooting of cuttings (5mks)

(b) Outline any five general post-harvesting practices carried out on crops (5mks)

(c) Describe five categories of vegetables on the basis of the part used as Food giving relevant examples (10mks)

