

Name.....

Index No.....

Candidate's sign.....

Date.....

443/ 1
AGRICULTURE
Paper 1
March/April, 2011
2 ½ Hours

MOKASA JOINT EVALUATION EXAMINATION
Kenya Certificate of Secondary Education
443/ 1
AGRICULTURE
Paper 1
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2 ½ Hours

Instructions to candidates

1. Write your name and index number in the spaces provided.
2. This paper consist of three sections; A, B and C
3. Answer all questions in Section A and B.
4. Answer any two questions from section C
5. Answer questions on foolscap provided.

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 16	30	
B	17 - 21	20	
C	22 – 24	40	
A - C	24	90	

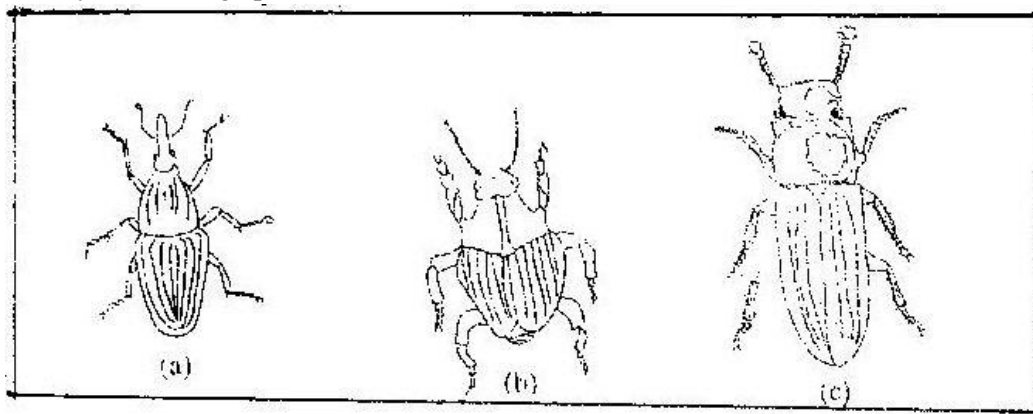
SECTION A (30 marks)

Answer all questions in this section in the spaces provided

1. Give four types of livestock farming (2 mks)
2. State four advantages of mixed farming (2 mks)
3. Name four roles of calcium in the growth of crops (2 mks)
4. Give two roles of household and firm in agricultural economic (1 mk)
5. State four objectives of land tenure reforms (2 mks)
6. State four stages of land adjudication and registration (2 mks)
7. (a) Define opportunity cost (1 mk)
(b) Give two types of labour records (2 mks)
8. Name four types of water pumps (2 mks)
9. State four importance of drainage in farming (2 mks)
10. Give four ways of controlling river bank erosion (2 mks)
11. State four effects of solifluction
12. State four reasons for affecting minimum tillage (2 mks)
13. (a) Name two tractor implements for sub soiling (1 mk)
(b) Give two reasons for subsoiling (1 mk)
14. Name four factors that determine hay quality (2 mks)
15. State four factors that are considered during the timing of planting (2 mks)
16. Name two factors that affect the efficiency of pesticides (1 mk)

SECTION B (20 MARKS)

17. (a) Identify farm storage pests shown below (1 ½ mks)



- (b) Name crop products attacked by each of the above pests (1 ½ mks)
- (c) Name one chemical control of the above pests (½ mk)
18. Describe the procedures of soil sampling in a farm (3 mks)
19. Describe the chititng of Irish potatoes (3 mks)

20. (a) Study the following diagram and answer questions that follow



Give the identity of the above diagram (½ mk)

(b) Name two types of crops that can be propagated by using the above method (1 mk)

(c) State three advantages of the above method of propagation (3 mks)

21. Study the table below showing the production of bonavist beans at various level of D.A.P fertilizer application and answer questions that follow

Fixed Input	Variable Input	T.P.	M.P
Land (1 hect)	DAP (kgs)	90 kgs	90 kgs
		Bags	Bags
	20	10	0
	50	25	15
	80	40	15
	100	52	12
	120	60	8
	140	65	5
170	65	0	

(a) Using the same axis draw the graph of total product and marginal product (3 mks)

(b) Indicate the three zones of production using vertical lines on the graph (3 mks)

SECTION C (40 MARKS)

Answer any two questions in this section in the spaces provided

22. (a) Describe the production of maize under the following headings
- (i) Land preparation (3 mks)
 - (ii) Planting (3 mks)
 - (iii) Field practices of maize (4 mks)
- (b) State and explain factors that influence crop rotation (10 mks)
23. (a) Describe limitations of wind in crop establishment (5 mks)
- (b) Describe four precautions in harvesting pyrethrum (4 mks)
- (c) Describe the procedure of harvesting tea (4 mks)
- (d) (i) Explain the planting of carrots (3 mks)
- (ii) Explain the field management practices carried out in a carrots farm (4 mks)
24. (a) State and explain methods of improving labour efficiency in the farm (10 mks)
- (b) Explain the functions of farm records (10 mks)