
**KENYA NATIONAL EXAMINATION COUNCIL
REVISION MOCK EXAMS 2016
TOP NATIONAL SCHOOLS**

**KENYA HIGH SCHOOL
AGRICULTURE
PAPER 1
TIME: 2 HOURS**

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**KENYA HIGH SCHOOL KCSE TRIAL AND
PRACTICE EXAM 2016**

INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided above
- This paper consists of three sections A, B and C.
- Answers should be written in the spaces provided.

FOR EXAMINER'S USE

SECTION	QUESTION	MAXIMUM MARKS	CANDIDATE'S SCORE
A	1 – 20	30	
B	21 – 25	20	
C	26 – 28	20	
		20	
TOTAL SCORE		90	

Answer ALL questions in this section.

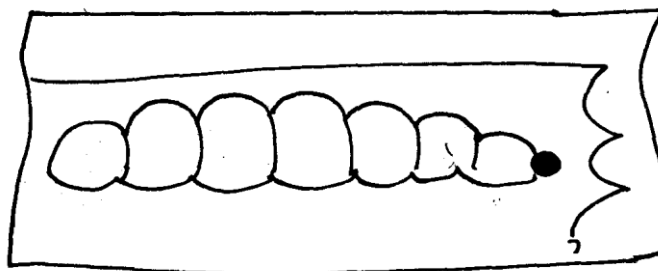
1. List **two** aspects of light that influence agriculture. (1mk)
2. State **two** reasons why land settlement scheme were established in Kenya. (1mk)
3. Define the following terms as used in crop production. (2mks)
 - (a) Pomoculture
 - (b) Oreliculture
4. Outline **two** methods used by farmers to harden-off seedlings in the nursery. (1mk)

5. State **two** circumstances that could make shifting cultivation practicable in an area. (2mks)
6. State **two** biotic factors that are useful in agricultural production. (1mk)
7. State **four** advantages of overhead irrigation. (2mks)
8. Give **two** signs that could enable you to identify a composite manure that is ready for use (2mks)
9. State **four** agricultural services available to a crop farmer. (2mks)
10. State **two** factors that must be considered when constructing cut-off drains. (1mk)
11. Give **four** methods of harvesting water in the farm. (2mks)
12. Give any **two** factors that should be considered before deciding to use chemical method of pest control. (1mk)
13. (a) What is biological weed control. (1mk)
 (b) State **two** advantages of biological weed control. (1mk)
14. State **two** farming practices that can be carried out to increase the amount of moisture harnessed by crops. (1mk)
15. Give **two** ways in which agriculture contributes to industrial development in Kenya. (1mk)
16. State any **three** characteristics of trees used in agroforestry. (1 ½ mks)
17. State what is meant by the term "trap crop" as used in crop pest control. (1)
18. Outline **two** factors that could determine the amount of fertilizer to be top dressed to a crop in the field. (1mk)
19. State **two** factors that determine the scale of agricultural production. (1mk)
20. State **four** benefits of budgeting to a farm manager. (2mks)
21. Give **three** reasons for practicing minimum tillage. (1 ½ mks)

SECTION B (20 MARKS)

Answer all this questions.

22. The diagram below shows a maize stalk infested by a certain pest. Observe it and Answer the questions that follow.



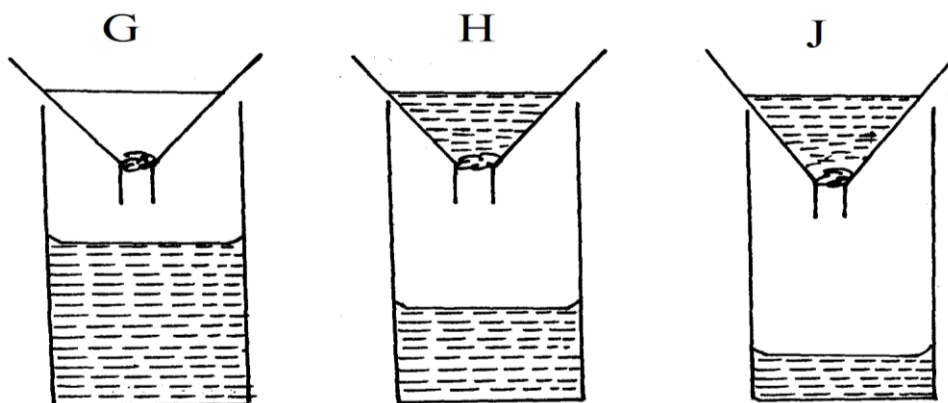
- (a) Identify the pest in the diagram above. (1mk)
- (b) Give **two** damages caused by the pest identified in (a) above. (2mks)
- (c) Other than maize name two other crops attacked by the pest (a) above. (1mk)
- (d) Give **two** cultural control measures for the pest (a) above. (1mk)
23. The table below show the weekly demand for wheat.

Price (Ksh.)	Quantity demand (kg)
20	250
18	350
16	550
14	600

12	700
10	1000
8	1500

- (a) Calculate the elasticity of demand for a price fall from ksh.20 to ksh.18 per kg. (2mks)
- (b) If the price increased from kshs.20 to kshs.22 and elasticity of demand is 6. Find the quantity demanded at higher price. (2mks)
- (c) State **two** factors that affect the demand of tomatoes other than price. (1mk)

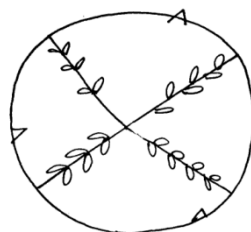
24. The diagram below shows an experiment set up using soil types G, H & J. Observations were made after 24 hours. Study the diagram and answer the questions that follow.



- (a) What is the experiment above designed to study. (1mk)
- (b) Name the three soil types (1 ½ mks)
- (c) Explain how the farmer can improve the soil type G. (1marks)

(1marks)

25. The diagram below shows a method of bringing tea into bearing. Study it carefully and Use it to answer the question that follow.



- (a) Identify the method in the diagram above. (1mk)
- (b) Why is it necessary to prune a young tea plant as illustrated in the diagram (1mk)
- (c) Outline the procedure followed when using the pruning method shown above.

above.

SECTION C (40 MARKS)

Answer any two questions from this section.

26. The following table shows an illustration of production of maize (in tons) using various levels of input.

Unit of variable input (Mondays)	Total output	Marginal product	Average product
0	0		
1	6		
2	18		
3	33		
4	40		
5	45		
6	48		
7	48		
8	40		

- (a) Work out the marginal product and average product and fill in the table (9mks)
- (b) On the same graph paper, plot the graph showing total output, marginal product and average product against the variable input. (8mks)
- (c) Outline **three** reasons why a maize farmer should keep farm records. (3mks)
27. (a) Explain cultural measures used in the control of weeds in a field of a named cereal crop. (10mks)
- (b) Explain **six** factors that can influence a well designed crop rotational program. (6mks)
- (c) Give **four** reasons why timely ploughing of the seedbed is important in crop production. (4mks)
28. Describe the production of nappier grass under the following subheadings.
- (a) (i) Land preparation (4mks)
- (ii) Planting (3mks)
- (iii) Utilization (3mks)
- (b) Explain farming practices that may lead to soil erosion. (5mks)
- (c) Outline **five** pieces of information contained in a land title deed. (5mks)