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

ALLIANCE GIRLS HIGH SCHOOL

443/1

AGRICULTURE

PAPER 1

2 ½ HOURS

SCHOOLS NET KENYA

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443/1

AGRICULTURE

PAPER 1

2 ½ HOURS

**ALLIANCE GIRLS HIGH SCHOOL KCSE TRIAL
AND PRACTICE EXAM 2016**

INSTRUCTION TO CANDIDATES

- ❖ Write your name and index number in the spaces provided above
- ❖ Sign and write the date of examination in the space provided
- ❖ This paper consists of **THREE** section **A, B, and C**
- ❖ Answer **ALL** questions in section **A and B**
- ❖ Answer any **TWO** question in section **C**
- ❖ **ALL** the questions should be answered in the space provided
- ❖ Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing

| Section | Question | Maximum score | Candidate score |
|----------------|-----------------|----------------------|------------------------|
| | 1-9 | 30 | |
| | 10-25 | 20 | |
| | | 20 | |
| | | 20 | |
| | TOTAL | 90 | |

SECTION A: (30 MARKS)

Answer ALL the in this section in the spaces provided.

1. a). What is land fragmentation in farming? (½ mark)
b) State two causes of land fragmentation in Kenya since independence (1mk)
2. State four advantages of using organic matter for mulching. (2mks)
3. State four reasons for practicing crop rotation. (2mks)

4. Give two advantages of growing one type of annual crop on the same piece of land continually. (1mk)
5. State four factors that may determine the number of cultivation when preparing a seed bed. (2mks)
6. State four methods of improving labour productivity on a farm (2mks)
7. Explain the following terms as used in agricultural economics. (2mks)
 - i) Marginal Returns
 - ii) Gross Domestic product (G D P)
 - iii) Opportunity cost
 - iv) Per capital income
8. Mention two ways by which soil PH may affect crop production (1mk)
9. Give two mechanical methods of separating soil particles according to size during soil analysis.(1mk)
10. Mention four factors which affect the quality of hay (2mks)
11. Give one possible cause of swelling on the root of bean plants. (½ mk)
12. Mention two soil factors which influence soil productivity. (1mk)
13. Give four factors which influence solifluction. (2mks)
14. List four factors that affect the selectivity of herbicides (2mks)
15. List down four benefits that a farmer may derive from agro forestry trees (2mks)
16. Give two types of product-product relationship in agricultural economics. (1mk)
17. Mention four activities carried out by young farmers clubs in Kenya (2mks)
18. Give four deficiency symptoms of phosphorus in crops. (2mks)
19. State two characteristics of a good rootstock for grafting (1mk)

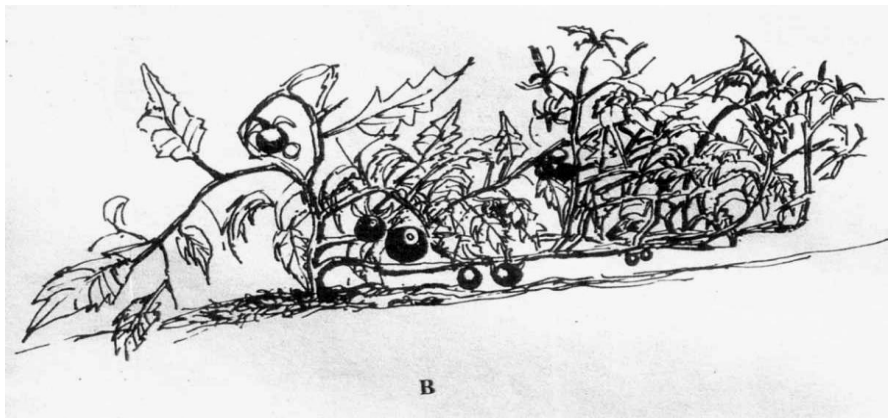
SECTION B (20 MARKS)

Answer ALL the questions in this section in the spaces provided

20. Below is a diagram of a bird labelled A, which is a crop pest.



- (i) Identify the bird(½mk)
- (ii) **State two** ways by which the bird causes loss in crops. (1mk)
- (iii) **State four** methods which are used to control the pest. (2mks)
21. Below is a diagram of money maker tomato plant labeled **B**

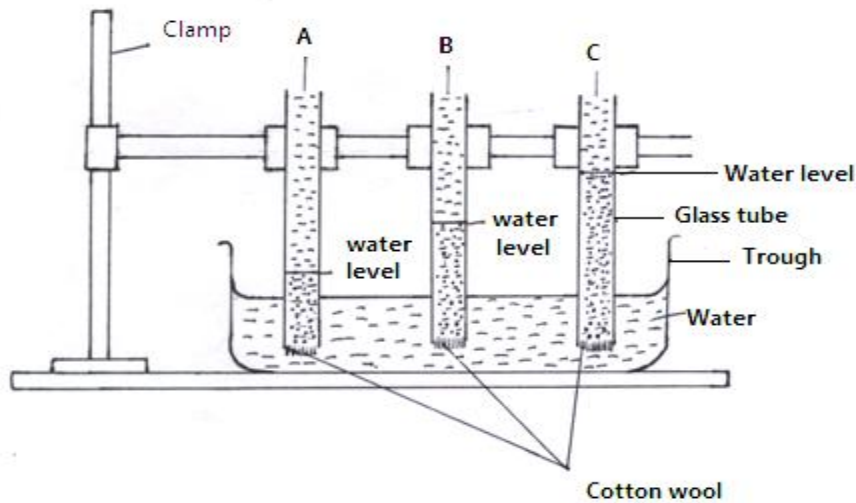


- i) Identify **any two** management practices that have not been carried out on the tomato plant (1mk)
- ii) **State two** problems that may arise as a result of not carrying out the management practices you have identified (i) above (1mk)
- iii) The diagram below shows a weed plant labeled **C**.



- i) **Identify** the weed plant (½mk)
- ii) **State two** reasons for controlling the weed labeled C in a crop field. (1mk)
- iii) **State one** herbicide that can be used to control the weed in a field of growing maize. (1mk)
- iv) At what stage of growth of maize should a post emergence herbicide be applied? (½mk)
- iv) i) What is a cut off drain? (½mk)
- (ii) Describe the procedure of constructing a cut off drain. (2mks)
- v) **State one** factor that would determine the width and depth of the cut- off drain (½mk)
- vi) On 10/1/2010 Lutonyi farm purchased on credit the following items from an Agro-vet shop
- 1) 20 bags of dairy meal, 70kg each @ kshs1, 100 per bag
 - 2) 16 bags of bran, 70kg each@kshs700 per bag
 - 3) 18 bags of D.S.P fertilizer,50kg@kshs1,500 per bag
 - 4) 45 bags of seed maize, each2kg @kshs300 per bag
 - 5) 8 Shearing knives (medium sized)@kshs300 per knife

- i) Prepare the purchase order that Lutonyi farm made to the agro-vet shop(4mks)
- ii) Calculate the value of each item purchased and the total value of the order. (2mks)
- vii) The diagram below shows an experiment set up using soil types A,B and observations were made after 24hours.Study the diagram and answer the questions that follows



- i) what is the experiment represented in the diagram above designed to study? (½ mk)
- ii) Name the three soil types labelled **A, B and C**. (1 ½ mks)
- iii) What is characteristic texture of soil types **A and C**? (1 mk)
- iv) State how a farmer would improve the structure of soil **type A**. (½ mk)

SECTION C 40 MARKS)

Answer any TWO questions from this section in the spaces provided after question 28

1. a) **Mention** and **explain five** sites for agro-forestry trees in the farm. (10mks)
 b) **Explain** the factors to consider in choosing the type of irrigation in the farm. (10mks)
2. a) Describe the field production of Tea under frame formation by pegging method (10mks)
 b) Describe the growing of Tomatoes under the following sub- headings
 i) Transplanting (5mks)
 ii) Diseases and their control (5mks)
3. a) **State** and **explain** the market functions (10mks)
 b) **State** and **explain** the various Land Tenure systems practised in Kenya (10mks)