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

**BAHATI GIRLS HIGH SCHOOL
AGRICULTURE
PAPER 1
TIME: 2 HOURS**

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443/1
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**BAHATI GIRLS HIGH SCHOOL KCSE TRIAL AND
PRACTICE EXAM 2016**

INSTRUCTIONS TO THE CANDIDATES:

- Write your **name** and **index number** in the spaces provided.
- This paper consists of three section **A,B** and **C**
- Answer **all** the questions in section **A** and **B**
- Answer any **two** questions in section **C**.
- Answers should be written in the spaces provided in this booklet.
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For Examiner's Use Only:

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-17	30	
B	18-21	20	
C	22-24	40	
	TOTAL	90	

SECTION A (30MKS)

Answer all questions in the spaces provided.

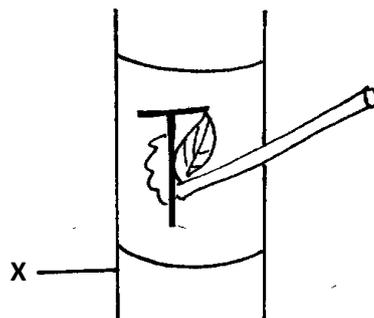
1. State **four** ways by which plant nutrients may be lost from the soil. (2mks)
2. State **two** characteristics of a good root stock for grafting (1mk)

3. Give **three** ways in which land consolidation help to promote sound farm management.(1½mks)
4. State **two** methods of controlling stalk borer. (1mk)
5. Mention **two** forms in which nitrogen is taken by plants. (1mk)
6. State **four** factors that should be considered when designing crop rotation programm (2mks)
7. State **four** advantages of drip irrigation (2mks)
8. Give **three** reasons for forage conservation. (1½mks)
9. Mention **four** aspects of rainfall that influence agriculture. (2mks)
10. Name **two** field practices carried out to obtain optimum plant population in a crop field. (1mk)
11. List **four** suitable sites for planting agro forestry trees (2mks)
12. State **four** factors to consider when deciding type of irrigation to use in the farm. (2mks)
13. List **four** benefits of packaging agricultural commodity (2mks)
14. Outline **four** information contained in an invoice (2mks)
15. State **four** ways of increasing soil fertility (2mks)
16. Give **four** reasons for proper drying of grains before storage. (2mks)
17. Name a chemical used to achieve the following drying water treatment 3mks)
 - a) Coagulation of solid particles
 - b) Softening of water
 - c) Killing of pathogens.

SECTION B

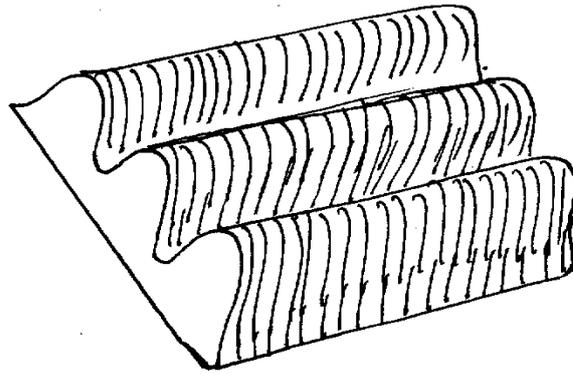
Answer all questions in the spaces provided.

18. The diagram below represents a method of crop propagation.

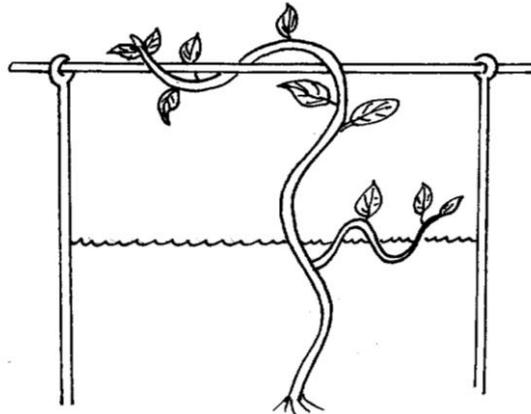


- a) Identify the method (1mk)
- b) State **two** uses of the adhesive tape in the practice. (2mks)
- c) Identify part labeled X (1mk)
- d) State **four** characteristics of part labeled X. (2mks)

19. The diagram below represents a ground surface after a tertiary operation.



- a) Identify the tertiary operation. (1mk)
- b) Give **two** types of crops that can be established on the structure above. (2mks)
- c) State **three** advantages of using above structure for growth of crops. (3mks)
20. The diagram below illustrates a field management practice. Study it carefully and answer the questions that follow:



- a) i) Identify the field practice (1mk)
- ii) Name **one** type of crop trained using the above method. (1mk)
- iii) Give **two** reasons for carrying out the practice. (2mks)
21. a) A farmer is to apply compound fertilizer 20:30:10 on a plot measuring 5m x 4m at the rate of 200kg per hectare. Calculate the amount of fertilizer the farmer would require for the plot. (2mks)
- b) What do the figures 30, and 10 in the fertilizer stand for (2mks)

SECTION C (40MARKS)

Answer any two questions in this section.

22. a) Discuss the principle of cooperatives (10mks)
- b) A farmer is considering to undertake production of either cotton or beans. Study the following information about the two crops then answer the questions that follow.

Cotton

Yield per hectare	2500kg
Price	Ksh. 10/= per kg
Labour requirement per hacter	100 man day

Cost of labour	25/= per man days
Cost of seeds	100/= per hectare
Cost of SSP fertilizer	2000/= per hectare
Cost of spraying	500/= per hectare
Cost of S.A fertilizer	1500/= per hectare

Beans

Yield per ha	2000kg
Price	12/= per kg
Labour requirement per ha.	15man days
Cost of labour	25/= per man day
Cost of seeds	1000/= per ha.
Cost of SSP fertilizer	1500 per ha.
Cost of sprays	200/= per ha.

- a) Calculate gross margin for each crop. From your calculations, identify the crop the farmer should grow. (10mks)
23. b) Describe establishment and management of a pasture crop stand upto grazing time. (10mks)
- c) Discuss harmful effects of weeds on crops. (8mks)
- d) Classify Herbicides according to formulation. (2mks)
24. a) Explain cultural method used in controlling crop diseases. (10mks)
- b) Describe the production of dry beans under the following sub-headings.
- i) Weed control (3mks)
 - ii) Harvesting (3mks)
 - iii) Marketing (4mks)