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

**MOI GIRLS ELDORET  
AGRICULTURE  
PAPER 1  
TIME: 2 HOURS**

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AGRICULTURE

PAPER 1

TIME: 2 HOURS

## MOI GIRLS ELDORET KCSE TRIAL AND PRACTICE EXAM 2016

### INSTRUCTIONS TO CANDIDATES:

- Write your **name** and **index number** in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- 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.

### FOR EXAMINERS USE ONLY

| SECTION | QUESTIONS | MAX SCORE | CANDIDATES SCORE |
|---------|-----------|-----------|------------------|
| A       | 1-16      | 30        |                  |
| B       | 17-20     | 20        |                  |
| C       |           | 20        |                  |
|         |           | 20        |                  |
| TOTAL   |           | 90        |                  |

*This paper consists of 8 printed pages. Candidates should check to ascertain that*

*all pages are printed as indicated and that no questions are missing.*

### SECTION A: (30 MARKS)

**Answer all questions in this section in the spaces provided.**

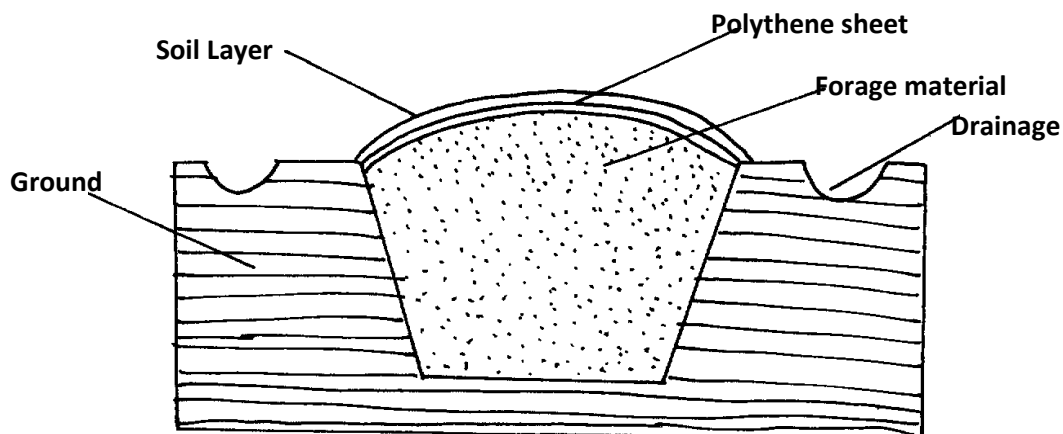
1. Name **four** processes of biological weathering. (2mks)
2. Name **four** types of records a maize farmer should keep (2mks)
3. (a) What is mixed farming? (1mk)  
(b) Give **three** disadvantages of mixed farming to a small scale farming. (1½mks)
4. State **three** ways in which trees improve soil productivity. (1½mks)

5. List **four** minimum tillage farming practices (2mks)
6. Give **two** routine maintenance practices on water storage tanks. (1mk)
7. List **four** examples of joint products in livestock production (2mks)
8. State **four** examples of variable inputs in sorghum. (2mks)
9. State **four** effects of pests with both piercing and sucking mouth parts on crops. (2mks)
10. State **two** ways of breaking seed dormancy during the preparation of planting materials. (1mk)
11. State **three** importance of tissue culture in crop production (1½mks)
12. List **four** financial documents that should be kept on a farm (2mks)
13. State **four** advantages of applying lime as a measure of improving soil condition (2mks)
14. State **four** effects of mass wasting (2mks)
15. Define the following terms as used in crop production. (3mks)
  - (a) Capping
  - (b) De – suckering
  - (c) Changing the cycle
16. List **three** sources of organic matter in the soil (1½mks)

### **SECTION B (20MARKS)**

**Answer all the questions in this section in the spaces provided.**

17. (a) The diagram below shows a method of forage preservation



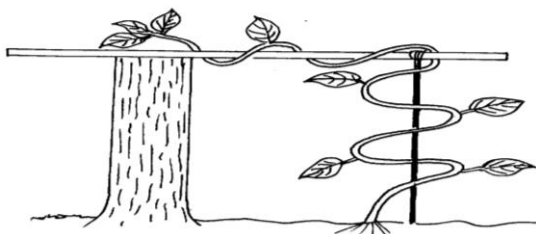
- (i) Identify the structure illustrated above (1mk)
  - (ii) State the form in which the forage is preserved as illustrated above. (1mk)
  - (iii) Give the role of each of the following in the structure above (2mks)
    - i. Polythene sheet:
    - ii. Drainage
  - (b) Name **one** other method of forage preservation. (1mk)
18. The following table gives the weekly demand and supply schedules of potatoes.

| Price per kg (shs) | Demand in millions of kgs | Supply in millions pf kgs |
|--------------------|---------------------------|---------------------------|
| 10                 | 23                        | 59                        |
| 9                  | 30                        | 57                        |

|   |    |    |
|---|----|----|
| 8 | 36 | 54 |
| 7 | 41 | 50 |
| 6 | 45 | 45 |
| 5 | 48 | 39 |
| 4 | 50 | 32 |
| 3 | 51 | 25 |

Use the table to answer the following questions

- (a) What is the equilibrium price? (1mk)
- (b) State the effects of a government imposing a maximum price of:
- (i) Ksh 5 per kg: (1mk)
- (ii) Ksh. 7 per kg: (1mk)
- (c) If the government guaranteed a potato supply at price of Ksh . 7 per kg , what quantity would it have to purchase to maintain this price? (1mk)
- d) If alternatively the government bought all the potatoes on offer at Ksh. 7 kg , what price would it have to change the consumers to dispose of this quantity? (1mk)
19. (a) The diagram below illustrates a field management practice carried out on a fruit crop.



- (i) Identify the practice illustrated above. (1mk)
- (ii) Give **two** reasons for carrying out the practice illustrated in the above diagram. (2mks)
- (b) Give a reason why it is not advisable to use manure in carrot production. (1mk)
20. (a) What is land fragmentation ? (1mk)
- (b) State **three** causes of land fragmentation (3mks)
- (c) State **two** objectives of settlement and resettlement. (2mks)

### **SECTION C (40 MARK)**

**Answer any two questions in this section in the spaces provided at the end of the section**

21. (a) State and explain any **five** cultural methods of controlling weeds (10mks)
- (b) Explain the harmful effects of pests on crops (10mks)
22. (a) Describe field production of dry beans under the following sub headings:
- (i) Land preparation: (4mks)
- (ii) Planting (6mks)
- (b) Explain **five** ways by which a farmer can adjust to risks and uncertainty. (10mks)
23. (a) Describe **ten** safety precautions that should be taken when using herbicides to control weeds. (10mks)
- (b) Explain **ten** farming practices which help to conserve soil on a farm (10mks)