

Name: Index no

School: Candidate's sign

Date:

443/1
AGRICULTURE
PAPER 1
JULY/AUGUST 2011
TIME: 2 HOURS

NYAMIRA DISTRICT JOINT EVALUATION TEST

Kenya Certificate of Secondary Education (K.C.S.E.)

**Agriculture
Paper 1**

INSTRUCTIONS TO CANDIDATES:

- Write your **name** and **index number** in the spaces provided.
- This paper consists of three sections:- **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 Examiner's Use Only:

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-25	30	
B	26-31	20	
C		20	
		20	
	TOTAL	90	

This paper consists of 12 printed pages. Candidates should check to ascertain that all papers are printed as indicated and that no questions are missing

SECTION A: (30MARKS)

Answer all questions in this section in the spaces provided.

1. State **two** conditions under which shifting cultivation is favourable (1mk)
.....
.....
2. State **three** activities that are carried out during soil sampling in the field. (1½ mks)
.....
.....
.....
3. Give **two** disadvantages of landlordism tenancy tenure system as practiced in Kenya. (1mk)
.....
.....
4. Name **two** methods of water collection in the farm. (1mk)
.....
.....
5. Mention **four** advantages of using polythene sleeves in the establishment of seedlings. (2mks)
.....
.....
.....
.....
6. What are **four** effects of low level of education and technology on agriculture. (2mks)
.....
.....
.....
.....
7. List **two** maintenance practices of sub-surface irrigation. (1mk)
.....
.....
8. Name **two** ingredients of the culture medium at Stage I of the tissue culturing (1mk)
.....
.....
9. State **four** methods used for collecting agroforestry seeds for planting. (2mks)
.....
.....
.....
.....
10. Outline **two** benefits of hedgerow intercropping as an agroforestry practice. (1mk)
.....
.....

11. Give **two** disadvantages of cumbered bed in drainage. (1mk)
-
-
12. State **two** reasons why subsoiling is important as an operation of land preparation. (1mk)
-
-
13. List **two** common sorghum diseases. (1mk)
-
-
14. Name **two** types of labour records commonly used in agricultural economics. (1mk)
-
-
15. Give **two** precautions taken to prevent pest attack in stored produce. (1mk)
-
-
16. State **two** roles of house hold –firm relationship in the economic growth of Kenya. (1mk)
-
-
17. Outline **two** factors which determine the efficiency of pesticides. (1mk)
-
-
18. Differentiate between intergrated pest management and economic injury level (1mk)
-
-
19. State the law of equimarginal returns in a production process (1mk)
-
-
20. Outline **two** advantages of farm budgeting. (1mk)
-
-
21. Give **three** benefits of micro-catchments in water conservation (1½mks)
-
-
-
22. State **two** cultural methods of soil conversation. (1mk)
-
-

23. List **two** management practices which are used to maintain pasture productivity. (1mk)

.....
.....

24. Given the maize is planted at a spacing of 75 X 25cm. Calculate the plant population in a plot of land measuring 4m x 4m show your workings. (2mks)

.....
.....
.....

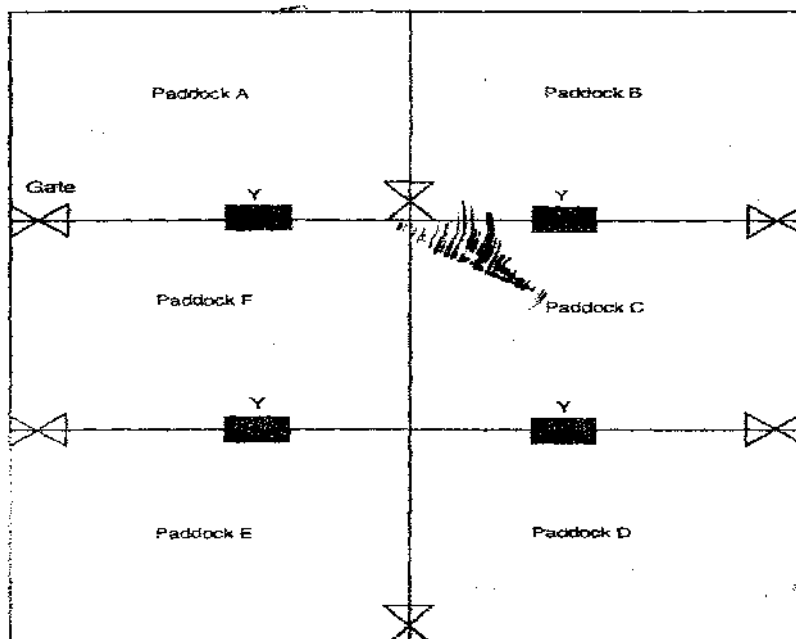
25. Name **two** types of land slides (1mk)

.....
.....

SECTION B: (20 MARKS)

Answers all questions in this section in the spaces provided.

26 The illustration below shows one of the grazing system commonly used by farmers,



a) Identify the grazing system. (½ mk)

.....
.....

b) With the help of arrows indicate the movement of livestock from one paddock to the next (1mk)

.....
.....

c) What is the purpose of the part labeled Y on the illustration. (1mk)

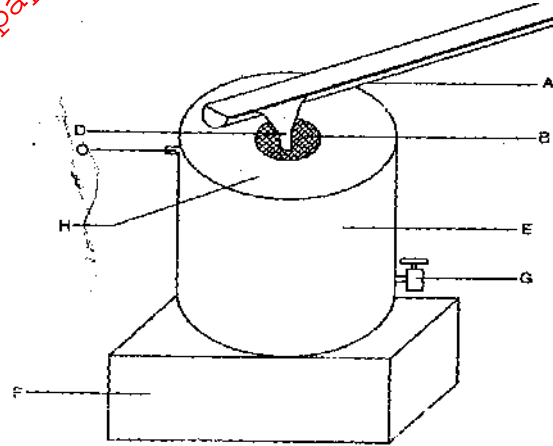
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d. State **two** advantages of this system of grazing.

(1mk)

.....
.....

27 The diagram below represents parts of a water harvesting structure. Study it carefully and answer the following questions.



a) Name the parts labeled A and H on the diagram.

(1mk)

A.....

H.....

b) Identify the method of water harvesting illustrated.

(½ mks)

.....

c) State the use of part labeled **B**

(½mks)

.....

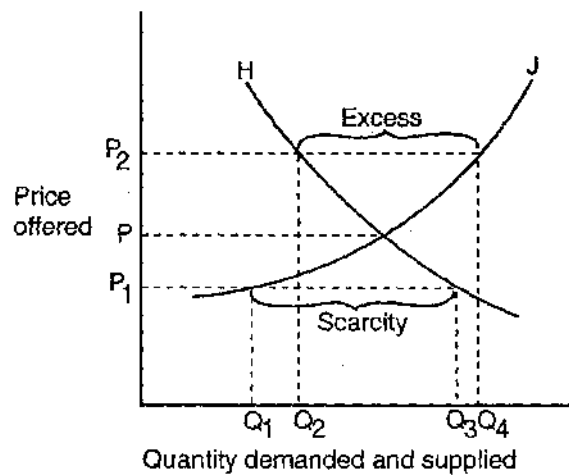
d) State **two** maintenance practices needed for part labeled **E**

(1mk)

.....

.....

28. Below is a graph showing the relationship between demand and supply in price determination. Study the graph carefully, then answer the questions below.



e) Name the curves labeled **H** and **J** (1mk)

H.....

J.....

b) State the name given to the point where the two curves **H** and **J** intersect. (1mk)

.....

c) Give **two** reasons why there is excess supply above P_2 . (1mk)

.....
.....

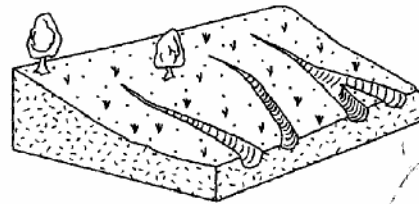
d) Name this method of price determination. (½mk)

.....

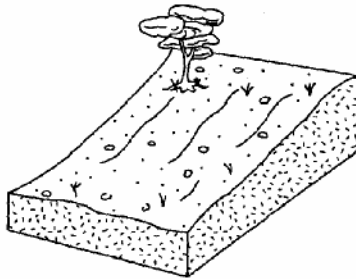
29. The illustrations below indicate types of soil erosion that take place on cultivated farm land. Study them and then answer the following questions.



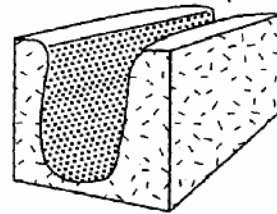
A



B



C



D

a) Identify the type of erosion represented by each of the illustrations **C** and **D** (1mk)

C.....

D.....

b) Name **two** factors that may accelerate the rate of the type of erosion represented by **A** (1mk)

.....
.....

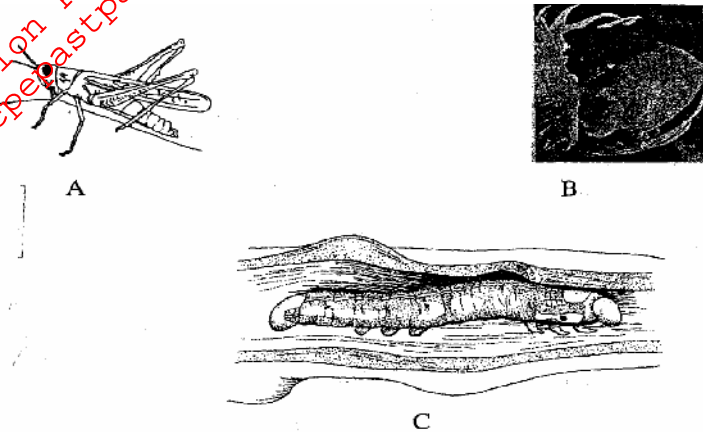
c) Give **one** practice that may reduce the impact of the type of erosion represented by **B** (½ mk)

.....
.....

d) A part from loss of soil what other types of destruction are caused by the type of erosion represented by A (½ mk)

.....

30. Study the illustration given below representing pests of cultivated crops and answer the following questions.



a) Identify the pests represented in A,B,C (1½ mk)

A.....
 B.....
 C.....

b) (i) State the damage done by the pests represented in the illustrations. (½ mk)

.....

(ii) Give the reason for your answer in b(i) above (½ mk)

.....

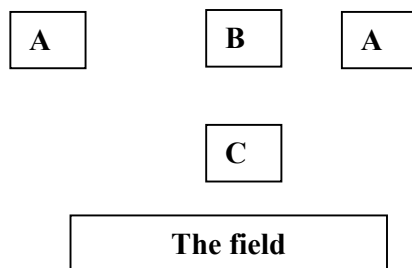
c) State **one** method used to control pest B, when the crop is growing. (½ mk)

.....

d) Which is the most devastating pests of the three indicated above. (½ mk)

.....

31. The illustration below shows a four –heap system of making compost manure. Study it and answer the questions that follows.



(i)By use of arrows indicate how the decomposing materials should be transferred from one heap to another till the manure is applied in the field. (1mk)

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