

NAME: _____ INDEX NO. _____

CANDIDATES SIGNATURE: _____

DATE: _____

GATUNDU-SUB COUNTY JOINT EVALUATION EXAMINATION

443/1

AGRICULTURE

PAPER I

JULY/AUGUST 2016

2 HRS

INSTRUCTIONS TO CANDIDATES

- 1) Write your name and index number in the spaces provided.
- 2) Sign and write the date of examination in the spaces provided.
- 3) This paper consist of three sections: A,B and C.
- 4) Answer all the questions in sections A and B
- 5) Answer **any two** questions from section C.
- 6) Write all answers in the spaces provided.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-18		
B	19-22		
C	23-25		
TOTAL SCORE			

SECTION A:

1. Give two sub-branches of arable farming. 1mk

2. Give four biotic factors that influence agriculture. 2mks

3. Give four reasons why land should be prepared early in readiness for planting. 2mks

4. State four reasons for deep ploughing during land preparation. 2mks

5. List two methods of land reclamation. 1mk

6. Give two circumstances that may necessitate irrigation. 1mk

7. Name the parts harvested for each of the following crops. 1½ mks

(a) Onions

(b) Carrots

(c) Coffee

8. Give two characteristics of fresh market tomatoes. 1mk

9. Name four general methods of controlling crop pests. 2mks

10. Give two effects of scarcity in agricultural production. 1mk

11. Differentiate fertilizer grade and fertilizer ratio. 2mks

12. Give three precautions that should be observed when storing nitrogenous fertilizers. 1 ½ mks

13. State two conditions that must exist for a market to be purely competitive. 2mks

14. Distinguish between grading and standardization in agricultural marketing. 2mks

(i) Grading

(ii) Standardization.

15. A form four student at Muthiga girls planted maize for her KCSE agriculture project. She used a spacing of 75cm x 25cm. her plot was 4x 3m.

(i) What does 75cm stand for in this statement? 1mk

(ii) Calculate the plant population. Show your working. 3mks

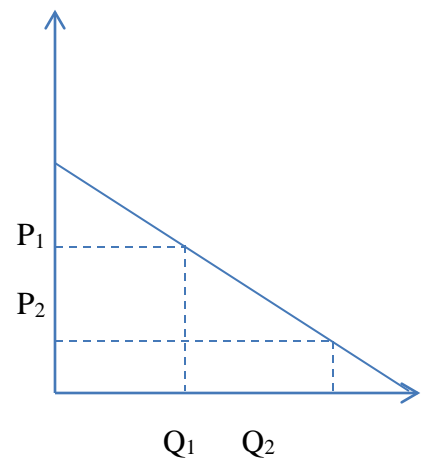
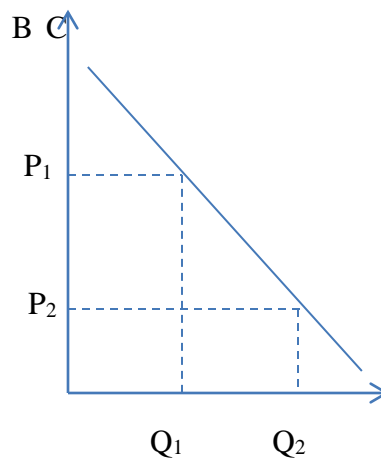
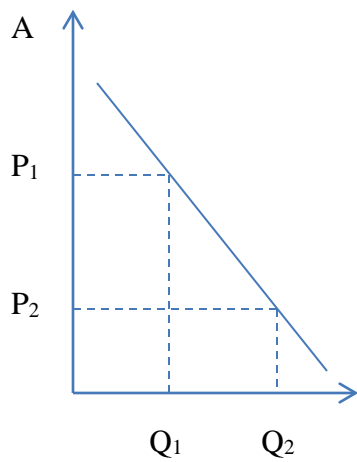
16. Give four benefits of a land title deed to a farmer. 2mks

17. State four control measures of river bank erosion. 2mks

18. Name two types of pests with piercing and sucking mouth parts. 1mk

SECTION B:

19. (a) Indicate the type of elasticity shown in diagrams A, B and C.

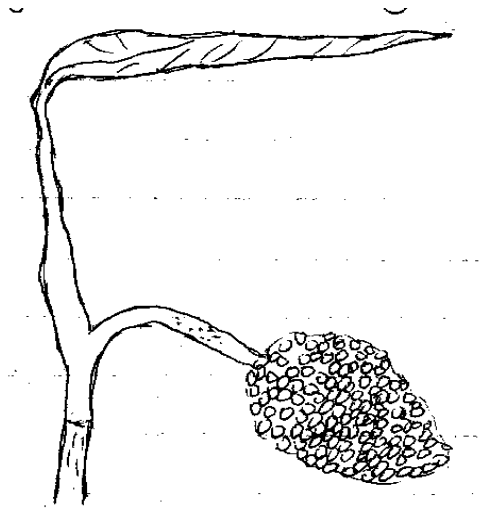


- A
- B
- C

(b) Give three factors that determine elasticity of demand. 3mks

(c) Give one example of a marketing agency in Kenya. ½ mk

20. Study the diagram below carefully and answer the questions that follow.



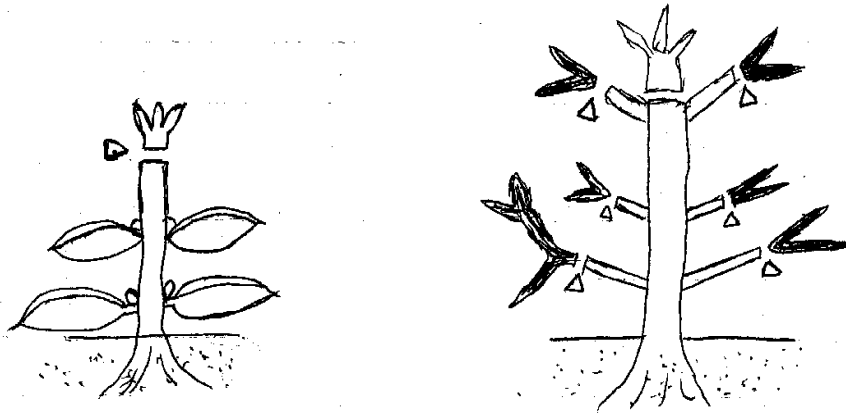
(a) Identify the variety of sorghum shown in the diagram. ½ mk

(b) Name two types of pests whose damage can be controlled by planting the above named variety. 2mks

(c) State two other measures used to control the pests named in (b) above. 2mks

(d) Name one disease that cause wilting of crops. ½ mks

21. The illustration below is methods of pruning. Study them carefully and then answer the questions that follow.



(a) Identify the methods of pruning. 1mk

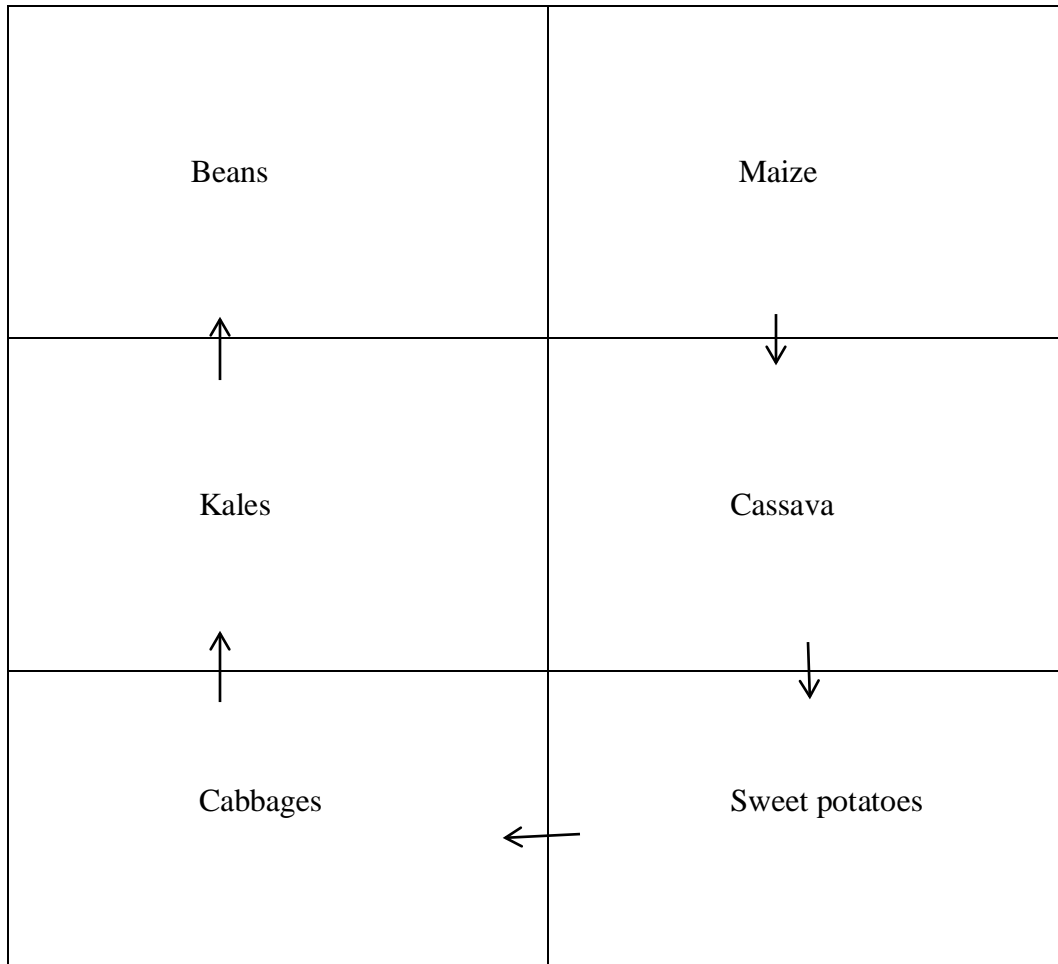
A _____

B _____

(b) State two ways in which pruning help in control of pests and diseases. 2mks

(c) Identify 3 tools used in pruning and give the use of each of them. 3mks

22. The illustration below shows a cropping programme.



(a) Identify the cropping programme. ½ mk

(b) Giving a reason, identify one mistake the farmer made when designing the above programme. ½ Mk

(c) State two ways the above programme help in control of weeds. 2mks

(iii)Post-harvest practices. 5mks

(b) Describe the cultural methods of controlling crop diseases. 7mks
