AGRICULTURE PAPER 1

KAGONDO SECONDARY SCHOOL

FORM FOUR PRF MID YFAR FXAM 2017

443/1

SECTION A (30 mks)

Answer all questions in this section in the spaces provided

- 1. Agriculturemis viewed as an art and a science. State four practices in the farm that makes Agriculture an art (2mks)
- 2.State four ways in which a farmer can improve the structure of a water logged clay soil (2mks)
- 3.Despite efficient water supply to his tomatoes, mr.Gikandi still noted wilting of some plants. Suggest two possible causes of wilting (1mk)
- 4. Outline the stages undergone in the development of a gully (2mks)
- 5.a) Explain why zone 2 in the zones of production is called a Rational Zone (1mk)
- b)Differentiate between a complete budget and a partial budget (1mk)
- 6.a) State four deficiency symptoms that would be seen in a crop lacking potassium (2mks)
- b)A farmer was advised to apply 150 kg of CAN of maize. Calculate the amount of Nitrogen applied per Hectare if CAN contains 21%N (1mk)
- 7.List down three types of Nurseries (1 ½ mks)
- 8.State four achievements that can be made with high level of education and technology in agriculture (2mks)
- 9. Name four example of liabilities in a balance sheet (2mks)
- 10.State four ways in which a farmer can increase labor productivity in the farm (2mks)
- 11. Give four farming practices that may help in achieving minimum tillage (4mks)
- 12. State four reasons why timely weed control is advisable in crop production (2mks)
- 13. Give two forms of collective land tenure system in Kenya (1mks)
- 14.Define the term "Economy Injury level" of a crop (1mk)
- 15. State three characteristics of shifting cultivation (1 ½ mks)

16. Name the disease that is characterized by mass of dark spores on the flowering part of maize (1mk)

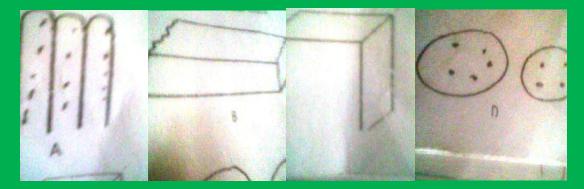
SECTION B (20 MKS)

Answer all questions in this section in the spaces provided

17. Three maize pests are shown in the diagram below. Study them and answer the questions that follow



- a)Identify the pests in the diagrams labeled A, B, and C (2mks)
- b)At what stage of maize production does pest A and B damage the crop (2mks)
- c) Give two ways in which C causes loses in field crops (2mks)
- 18. Study the following types of soil structure and answer the questions that follow



a)Identify the type of soil structure labeled A, B, C, and D (2mks)

A.....

B.....

C.....

D.....

b) Which type of soil structure is best suited for farming (1mk)

- c)Identify four characteristics which make the soil structure named in (b) above suitable for farming (2mks)
- 19. The diagram below shows panicles of two sorghum varieties . Study and answer the following questions



- a)Identify varieties L and M (2mks)
- b) Which of the two varieties of sorghum is less likely to be damaged by birds (1mk)
- c) Give a reason for your answer in (b) above
- 20.Differentiate between a Hybrid and a composite as applied in maize production (1mk)
- 21. Why are the following weeds difficult to control
- a)Couch grass (1mk)
- b)Oxalis latifolia (1mk)
- c)Double thorn (1mk)

SECTION C (40 MKS)

Answer any two questions in this section in the spaces provided.

- 22 i)Explain five structures used to control soil erosion (10mks0
- ii)State and explain five factors which may influence the spacing of crops (10mks)
- 23 a)Describe ten cultural methods used in controlling crop pests (10mks)
- b)Describe production of paddy rice under the following sub headings
- i)Land preparation (3mks)
- ii)Water control (3mks)

- iii)Role of irrigation water (3mks)
- iv)Signs of maturity (1mk)
- 24.a) Explain challenges faced by Kenyan vegetable farmers In the production of crop (10mks)
- b)Discuss various safety precautions observed when using herbicides (5mks)
- c)state 5 factors that influence soil erosion (5mks)