**NAME ----------------------------------------- CLASS ------------------------ ADM NO -----------------**

**GATITU MIXED SECONDARY SCHOOL**

**AGRICULTURE 443/1**

**FORM THREE 3RD TERM 2013 TIME: 2HRS**

**INSTRUCTIONS:**

* **Answer all the questions in section A and B**
* **Answer any two questions in section C**

**SECTION A (30MKS)**

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

1. Name four climatic factors that influence agriculture in Kenya. 2mks
2. Give four reasons why green manure is not commonly used? 4mks
3. State four disadvantages of overhead irrigation system. 2mks
4. Differentiate between intercropping and mixed cropping. 2mks
5. Give four characteristics of serena variety of sorghum. 2mks
6. Name four criteria for classifying herbicides. 2mks
7. State four general symptoms of viral diseases. 2mks
8. State four qualities of good silage. 2mks
9. Name two basic concepts of economics other than opportunity cost. 1mk
10. Under what two conditions does opportunity cost not exist? 1mk
11. State four aims of establishing land settlement schemes in Kenya. 2mks
12. Name four biological measures used to conserve soil and water. 2mks
13. State four causes of poor drainage. 2mks
14. Give four ways of water pollution prevention and control 4mks
15. State four roles of calcium in crop growth. 2mks
16. Differentiate between stocking rate and carrying capacity. 2mks
17. Below are illustrations of different planting materials. Study them carefully and answer the questions below.

1. Identify the planting materials represented by diagrams D,E,F,G 2mks
2. Differentiate between E and F as planting materials. 1mk
3. State two factors that affect the rooting of the material represented by G. 2mks

 17. Study the photograph below and answer the questions that follow.

1. Name three types of tools that are used to carry out the process. 3mks
2. State two reasons for above process being carried out on tea plants. 2mks

 18. Describe the procedure of haymaking 5mks

 19. Diagram below shows a weed. Study it and answer the questions that follow.

1. Identify the weed 1mk
2. Why is it difficult to control the weed illustrated above by uprooting method? 1mk
3. Give two harmful effects of the weed. 2mks
4. Classify the weed illustrated above according to life cycle. 1mk

**SECTION C (40 MKS)**

**ANSWER ANY TWO QUESTIONS FROM THIS SECTION IN SPACES PROVIDED**

20.

1. Describe the establishment of grass pasture from the time the land is ploughed using a mould board plough to the time the pasture is ready for grazing. 16mks
2. State four reasons for forage conservation. 4mks

21. Describe the environmental factors which lead to low crop yields. 20mks

22.

1. Outline ten activities carried out to control crop diseases in the field. 10mks
2. Explain five causes of land fragmentation in Kenya. 10mks