

NAME.....ADM.....CLASS.....

**GATITU GIRLS SECONDARY SCHOOL (GATUNDU)**

**AGRICULTURE PAPER 1 END TERM TWOEXAM 2016 FORM THREE**

**INSTRUCTIONS TO CANDIDATES**

- [a] Write your name and index number in the spaces provided above .
- [b] Sign and write the date of examination in the spaces provided above .
- [c] This paper consists of three sections : A , B and C .
- [d] Answer all the questions in sections A and B .
- [e] Answer any two questions in section C .
- [f] All answers should be written in the spaces provided .
- [g] Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing .
- [h] Candidates should answer the questions in English .

For Examiners

SECTION	QUESTIONS	MAX SCORE	CAND SCORE
A	1----17	30	
B	18---21	20	
C	22/23/24	20	
	22/23/24	20	
	TOTAL SCORE	90	

**SECTION A [30 MARKS]**

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

1.Give four reasons why timely weed control is advisable in crop production .[2 marks]

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

2.State four disadvantages of use of vegetative propagation in bananas [2 marks ]

3. Outline four functions of magnesium in crops .[2 marks ]

4.State two conditions when you recommend fertilizer application by spraying method .[ 1 mark ]

5. Name two macronutrients whose deficiency in crops causes chlorosis. [ 1 mark ]

6 State four characteristics Of a good rootstock for grafting .[ 2 marks ]

7 Give four precautions observed in pruning mature tea .[2 marks ]

3 List four morphological features of plants that influence the selectivity of herbicides . [ 2 marks ]

9 State four conditions that may lead to land sub division in Kenya .[ 2 marks]

.....  
.....  
.....  
.....  
**10.State two practices carried out to ensure field hygiene [ 1 mark ]**

.....  
.....  
.....  
.....  
**11.State four roles of irrigation water in a rice field .[ 2 marks ]**

.....  
.....  
.....  
.....  
**12.State two disadvantages of late defoliation in pasture management . [ 1 mark ]**

.....  
.....  
.....  
.....  
**13.Define the following terms as used in economics .**

[a] **National income .[ 1 mark]**

[b] **Per capita income [ 1 mark ]**

.....  
.....  
.....  
.....  
**14. State four ways by which trees help in soil conservation . [ 2 marks ]**

.....  
.....  
.....  
.....  
**15.Give four characteristics of materials used in the preparation of compost manure.[2 marks ]**

.....  
.....  
.....  
.....  
**16.Give four benefits of a good soil structure in crop production . [ 2 marks ]**

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

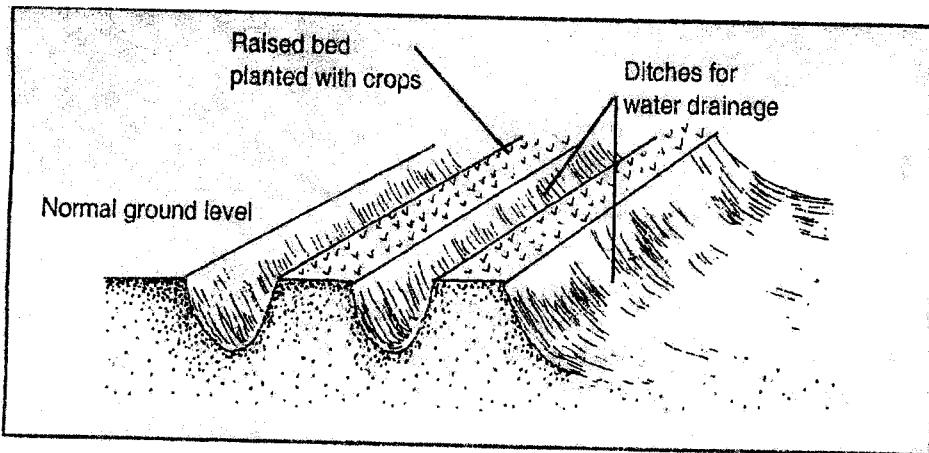
17.State four objectives Of land tenure reform . [ 2marks ]

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

SECTION B [20 marks ]

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

18. The following is an agricultural structure common in a seedbed . Study it and answer questions that follow .



[a]Give the identity of the structure . [1 mark ]

.....  
.....

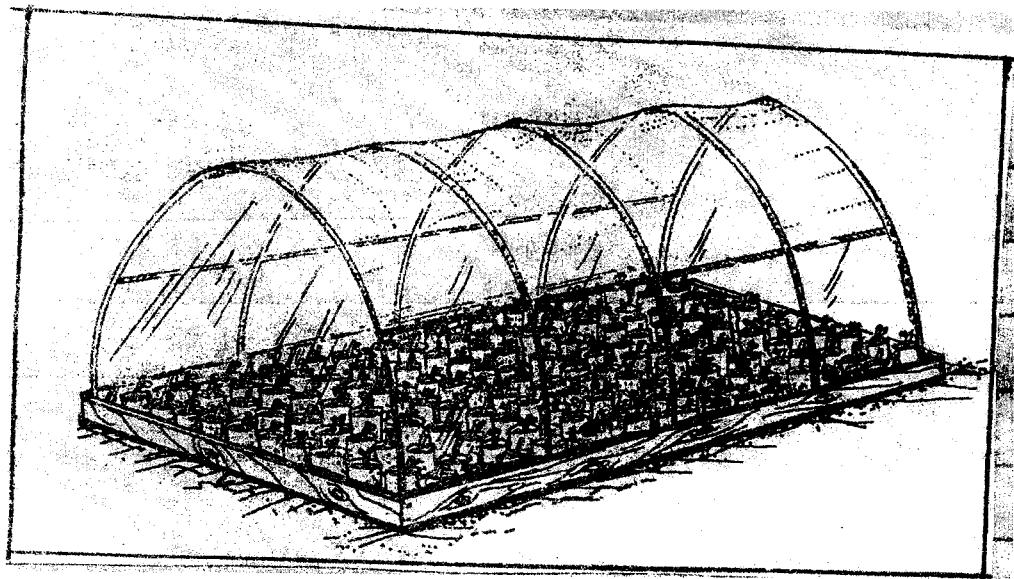
[b] State two functions of the above structure in agriculture . [2 marks ]

.....  
.....

[c] Name two other methods that would supplement the above practice .[2 marks ]

.....  
.....

19.Study the following diagram of a tea nursery and answer questions that follow .



(a) State the importance of the transparent polythene sheet. (1 mark)

---

---

[b] Give two practices carried out when the tea seedlings are establishing in a nursery .[2marks]

---

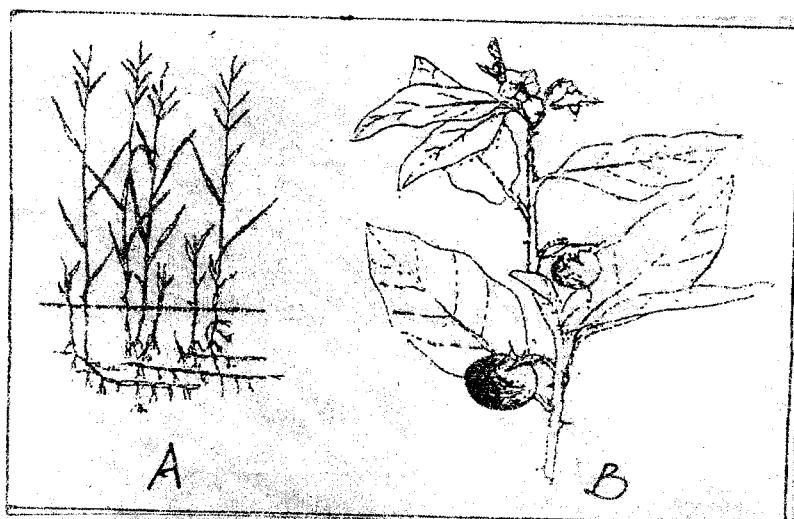
---

[c]State two advantages of using seedling boxes over ground nursery [ 2 marks ]

---

---

20. Study the diagrams below and answer questions that follow .



[a] Identify the above weeds . [ 2 marks ]

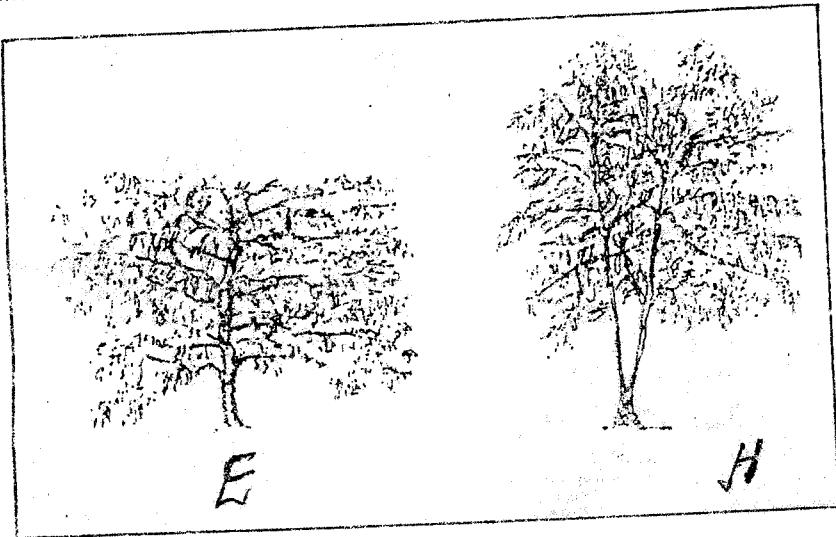
A.....

B.....

[b] State two economic importance of the weed shown in diagram A [2marks]

[c] Why is it difficult to control the weed in diagram A ? [1 mark ]

21. The diagrams labeled E and H below are illustrations of coffee plants established using two different formative pruning systems . Examine the diagrams and answer the questions that follow .



[a] Name the systems of pruning illustrated in diagram E . [1/2 mark ]

[b] Name the system of pruning illustrated in diagram H . [ ½ mark ]

[c] Outline how the pruning system in the diagram H is carried out . [ 2 marks ]

[d] Give two advantages of the pruning system illustrated in diagram E [2marks]

**SECTION C [40marks]**

Answer any two questions from this section in the spaces provided after each question

22.[a]Explain seven effects of wind in agriculture .[7marks]

[b]Explain six reasons for carrying out minimum tillage . [6marks]

[c]Explain seven methods of maintaining soil fertility . [7marks]

23.[a]Explain eight factors that influence soil erosion .[8marks]

[b] Outline seven cultural practices used to control crop diseases [7 marks]

[c]Describe the precautions taken when harvesting the following crops :

### Sugarcane [2marks]

### **Pyrethrum [3marks]**

24.[a]Discuss five factors that influence the quality of harvested rain water .[5marks]

[b] Outline five factors to be considered before deciding on irrigation in crop production .[8marks]

[c] Give five pieces of information found in a breeding record .[5marks]

Give two importance of keeping breeding records .[2marks]