

Name..... Class.....

**FORM 2  
AGRICULTURE**

**END-YEAR EXAMINATION 2017**

**Time: 2 HRS**

**INSTRUCTIONS TO CANDIDATES**

*Write your name in the spaces provided above.*

*This paper consists of **three** sections: **A, B** and **C**.*

*Answer **all** the questions in sections **A** and **B***

*Answer only **ONE** question from section **C** on the foils caps provided.*

**For Examiner's use only**

<b>Section</b>	<b>Questions</b>	<b>Maximum score</b>	<b>Candidate's Score</b>
A	1 - 20	40	
B	18 - 29	40	
C	30	20	
	<b>TOTAL</b>	<b>100</b>	

**SECTION A 40MARKS**

**(Answer ALL the questions in this section)**

1. State TWO advantages of mixed farming. (1 mark)

.....  
.....

2. List **two** advantages of over-sowing. (1 mark)

.....  
.....  
3. List four tools used for laying concrete blocks when constructing a wall. (2 marks)

.....  
.....  
4. Give TWO roles of good soil aeration. (2 marks)

.....  
.....  
5. State **three** methods of clearing land. (1½ marks)

.....  
.....  
6. Name FOUR methods of seed treatment before planting. (2 marks)

.....  
.....  
7. State TWO advantages of vegetative propagation. (2 Marks)

.....  
.....  
8. Mention mineral elements categorized in the groups.  
i) Fertilizer elements. (2marks)

.....  
.....  
ii) Liming elements (2 marks)

.....  
.....  
9. State two advantages of and two disadvantages of using open ditches to drain water logged land. (2 mark)

Advantages

*Disadvantages*

.....  
.....  
(b) State four of the Factors determining type of irrigation use in crop production. (2 marks)

- .....
10. Mention THREE factors of production used in a farm business. (1½ marks)
- .....
- .....
- .....
11. Give THREE reasons why camels are better adapted to semi-arid areas. (3 marks)
- .....
- .....
- .....
12. What is the effect of the following conditions on carrots;-
- i) high temperatures. (1 mark)
- .....
- .....
- ii) heavy soils. (1 mark)
- .....
- .....
- iii) excess water. (1 mark)
- .....
- .....
13. Give four reasons for keeping livestock healthy. (2 marks)
- .....
- .....
- .....
- .....
14. State TWO Uses of health records. (1 mark)
- .....
- .....
15. How the following factors do affects the quality of farmyard manure. (3 marks)
- i) Method of storage.....
- .....
- ii) Age of the manure.....
- .....
- iii) Age of the animal.....
- .....
16. Calculate the plant population per hectare if spacing is 100cm by 50cm. (2 marks)

17. State THREE methods of controlling tsetse flies. (1½ marks)

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

18. Give three reasons agriculture is regarded as a science. (1½ marks)

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

19(a) State two of the reasons for crop rotation. (1 mark)

.....  
.....

(b) Give two factors influencing crop rotation. (1 mark)

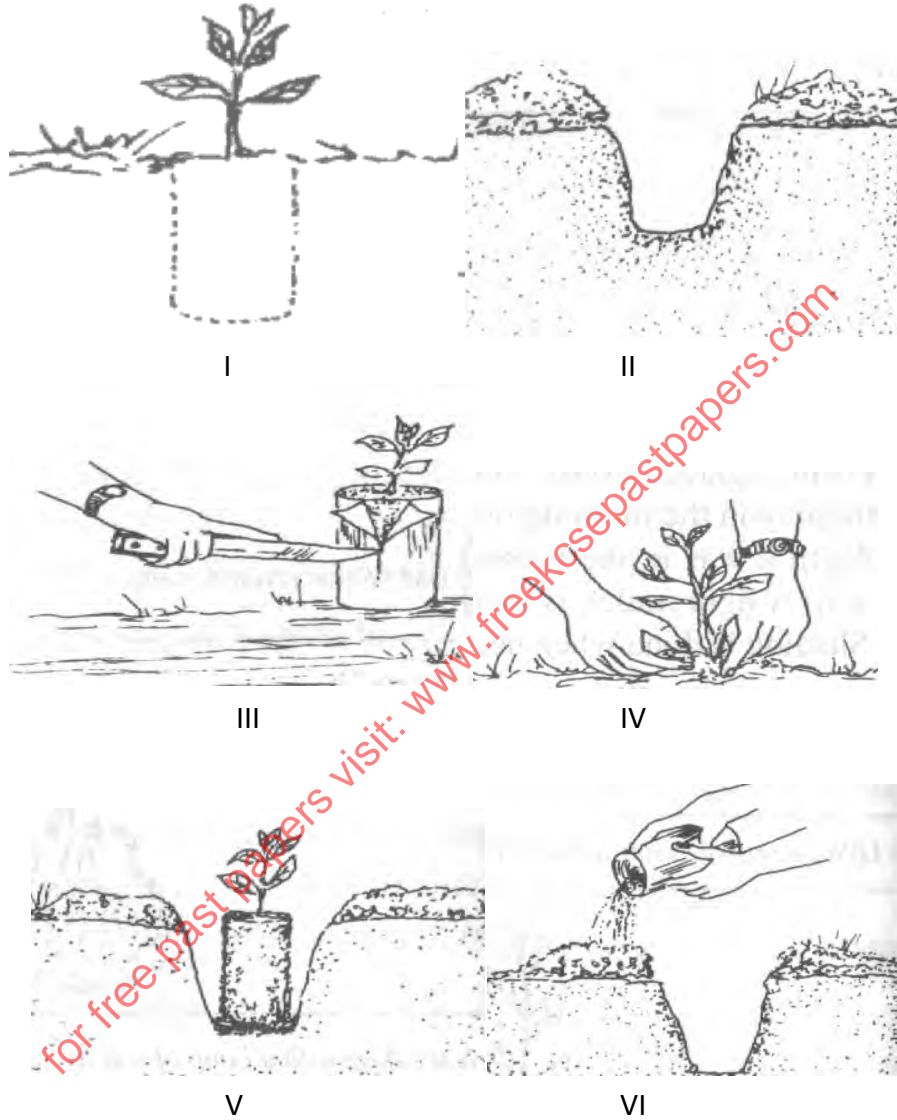
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**SECTION B: (40 MARKS)**

**(Answer ALL the questions in the spaces provided)**

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



- a) Identify the operation shown in the diagrams above. (1 mark)  
.....
- b) Arrange the activities shown in the order that they occur. (2 marks)  
.....
- c) State the timing of this operation. (1 mark)  
.....
- d) What precaution is observed when activity V above is done? (1 mark)  
.....

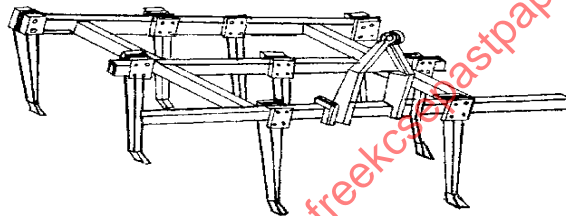
e) Mention **three** operations carried out after the last activity is done in the diagram above. (3 marks)

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

f) What advantages does the establishment of seedlings using polythene sleeves have over direct sowing on the nursery ground? State **four** of the advantages. (4 marks)

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

21. Study the diagram of the equipment shown below then answer the questions that follow.



(a) Identify the equipment. (1 mark)

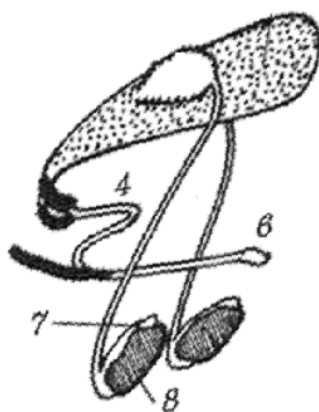
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b) State FOUR advantages of early seed bed preparation. (2 marks)

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

22. The diagram below shows the reproductive system of a bull.

a) Name the parts labeled 4, 6, 7 and 8. (2 marks)



b) Give the functions of parts named above. (4 marks)

- 4 .....
- 6 .....
- 7 .....
- 8 .....

23. Study the diagram below and answer the questions that following.



(a) Identifying practice in the figure above. (½ mark)

.....

(b) How would the farmer encourage the practice shown above in question 21 to be successful? (½ mark)

.....

(c) State two advantages of the practices shown above in question 22. (1 mark)

.....  
 .....

(d) Name TWO other methods that achieve the same results as the practice in the diagram shown above (question 22). (1 mark)

.....  
 .....

24. A farmer is supposed to apply a compound fertilizer 20:30:10 on a plot measuring 5 metres long and 4 metres wide at the rate of 200 kg per hectare.
- i) Calculate the amount of fertilizer the farmer would require per plot. Show your working. (3 marks)

- ii) What do the figure 20:30 stand for in the title of the compound fertilizer. (1 mark)

.....  
 .....

25. The diagrams below represent livestock parasites.



Y



Z

- a) Identify the parasites Y and Z. (1mark)
- .....  
 .....
- b) In which organ in livestock is parasite Z found? (½ mark)
- .....
- c) How is parasite Z passed from livestock to human beings? (½ marks)
- .....
- d) Give two control measures of each parasite. (2 marks)
- Y .....
- Z .....



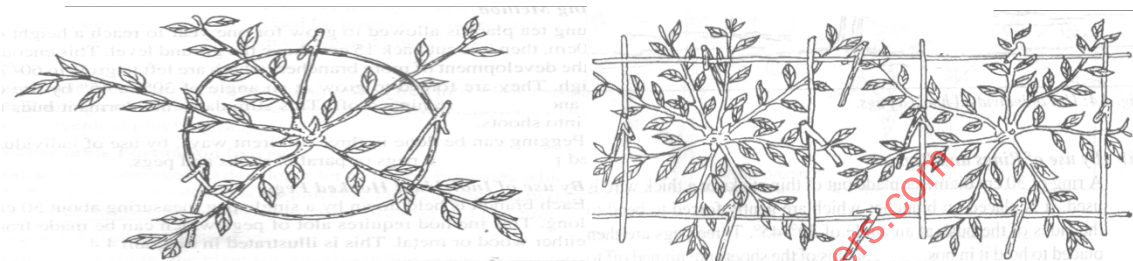
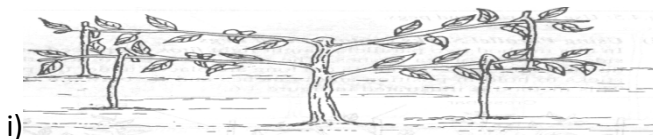
26(a) Identify the methods of pegging tea shown in the diagrams below;

(1½ marks)

i) .....

ii) .....

iii) .....



ii)

iii)

(b) What is purpose of nipping the tips of shoots shown above? (1 mark)

.....  
 .....

(c) What is tipping? (1 mark)

.....  
 .....

d) Give TWO reasons of pruning tea. (2 marks)

.....  
 .....

27. Different soils were tested and their pH values tabulated as shown below.

Soil sample	pH value
P <sub>1</sub>	4
P <sub>2</sub>	5
P <sub>3</sub>	6
P <sub>4</sub>	7
P <sub>5</sub>	8
P <sub>6</sub>	9
P <sub>7</sub>	10
P <sub>8</sub>	11

a) How would the pH value of soil sample P<sub>1</sub> be increased? (1 mark)

.....  
 .....

- b) How would the pH value of soil sample P<sub>8</sub> be reduced? (1 mark)
- .....
- .....
- c) Give two ways in which soil pH may influence crop production. (2 marks)
- .....
- .....

**SECTION C: (20 marks)**

*(Answer any of the two questions below in the foolscaps provided.*

*Remember to write the number of each question on the foolscaps clearly)*

- 29(a) State and Explain five measures that can be used to control livestock diseases. (10 marks)
- b) Describe Blossom End rot disease under the following subheading, cause, signs and the control of the disease. (5 marks)
- (c) Describe **FIVE** advantages of farm records. (5 marks)
- 30(a) Describe the life cycle of a liver fluke( Fasciolasp) (10 marks)
- b) Describe agricultural practices that cause water pollution. (5 marks)
- c) Explain any five factors considered in spacing of crops in the field. (5 marks)

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