

MANGU HIGH SCHOOL

NAME: _____

ADM.NO. _____ CLASS: _____

443/1

AGRICULTURE

PAPER1

MOCK EXAM

TIME: 2 HOURS

MANGU HIGH SCHOOL
MOCK EXAM JULY 2015
Agriculture Paper 1

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **THREE** sections; A, B and C
- Answer **ALL** questions in Section A and B
- Answer **TWO** questions from Section C. All questions carry equal marks.
- All questions should be answered in the spaces provided.

For Examiner's Use Only

Section	Question	Maximum Score	Candidates Score
A			
B			
C			

Turn over

F4

p1

Section A (30 marks)

Answer all questions in this section in the spaces provided

1. State two ways in which cultural practices and religious beliefs can affect agricultural production unfavourably (1 mark)

2. What is the importance of parent material in a soil profile (1 marks)

3. List down three tertiary operations that may be carried out on some seedbeds (1½ marks)

4. Outline four methods of breaking dormancy in certain seeds before planting 2 marks

5. Outline four characteristics of a good rootstock (2 marks)

6. Outline four factors that influence the planning of a crop rotation2 marks

7. Give a reason why low pH is desirable during the process of making silage. 1 mark

8. State three disadvantages of mixed pastures 1 ½ marks

9. Give four reasons why health records should be kept in livestock production (2marks)

10 Distinguish between pricking-out and hardening-off (1 mark)

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11. Give three factors considered when grading tomatoes

1 ½

12 State five ways in which a farmer can improve the structure of a waterlogged soil

2 ½

13. State four reasons for seed selection

2 marks

14. State two factors that determine the stage at which a grain crop is ready to be harvested (1 mark)

15 State two reasons for choosing the right enterprise combinations in farm management (1 mark)

16 What is difference between gross margin and net profit?

(1 mark)

17 . State the advantage of tenancy tenure system in farming

(1mark)

18 Give the meaning of the term closed season as used in crop production

(1mark)

19. Define the following terms legume as used in pasture establishment

i) undersowing-

1 mark

ii) oversowing-

1 mark

20 State six factors that determine the nutrient content of hay

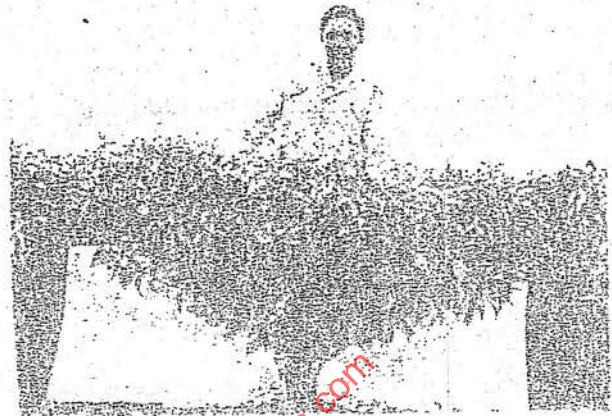
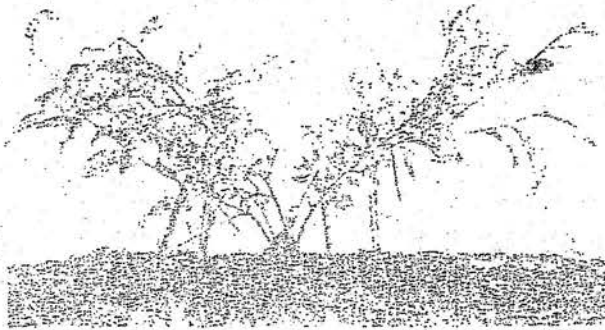
(3marks)

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SECTION B (20 MARKS)

Answer all questions in this section in the spaces provided

21 The diagrams below labelled D and E shows two methods of bringing tea into bearing. Study them and answer the questions below:



i) Identify the methods D and E shown in the diagram

(1 mark)

ii) Why is it necessary to prune young tea plant as illustrated in the diagram?

(1 mark)

(iii) Give two advantages of method D over method E.

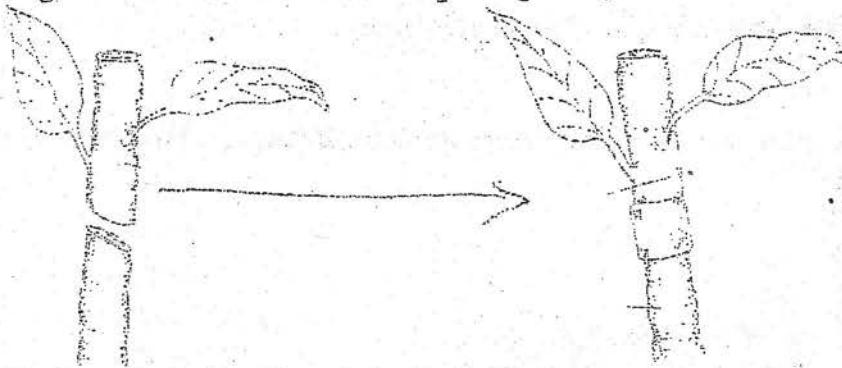
2 marks

iv) Give two crops that require training

(1 mark)

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22. The diagram below shows a method of grafting. Study it and answer the following questions.



a) Identify the method of grafting shown in the diagram

(1 mark)

b) Name the parts labelled G and H

(1 mark)

G

H

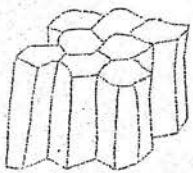
c) Name the material used for tying the graft union

(1 mark)

d) What is the reason for tying after grafting?

(2 marks)

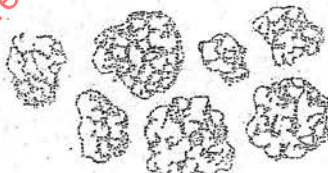
23. The diagrams labelled E, F, G and H illustrate some soil structures. Study the diagrams carefully and answer the questions that follow:



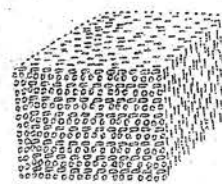
E



F



G

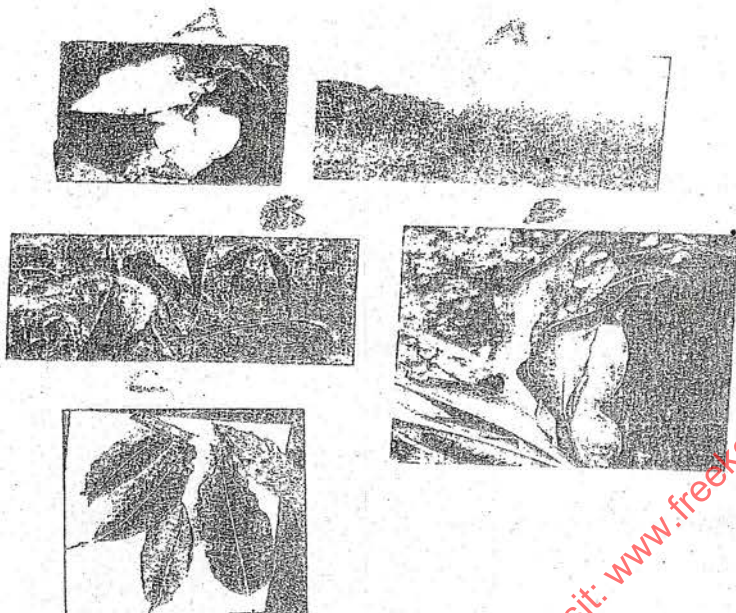


H

a) Identify the soil structures E, F, G and H

(2 marks)

- a) List down four field practices, which can destroy the structures (2 marks)
- b) Name the type of soils where structures E and F might be found (1 mark)
24. The diagrams show three crops labeled A, B, C suffering from deficiency of a certain nutrient. (refer to the appendage after page 7)



- a) Name the nutrient deficiency in each of the three crops (1 ½ marks)
- A
- B
- C
- b) Name the chemical fertilizer which might correct the deficiency when added to the soil in each case (1 ½ marks)
- c) Maize requires 120kg/ha of phosphorus pentoxide (P_2O_5). How much of the compound fertilizer 20:20:10 would be applied to 0.4 hectare of land to achieve this rate (2 marks)
- d)

SECTION C (40 MARKS)

Answer ANY TWO questions in this section in this spaces provided after question 27

25. a) State three properties of soil that are influenced by its texture (3 marks)
- b) Explain six factors that determine the choice of implements for primary cultivation (12 marks)
- c) State five factors that determine the spacing of a crop (5 marks)
26. a) List five advantages of mixed grass-legume pasture over a pure grass (5 marks)
- b) State five uses of farm fences (5 marks)
- c) State five ways by which a grass cover helps to conserve soil (5 marks)
27. a) Explain five factors to consider when selecting a farm enterprise (10 marks)
- b) State four benefits of using organic matter for mulching (4 marks)
- c) State six farming practices that could be used to improve soil structure (6 marks)