

MOKASA AGRICULTURE PAPER 1 EXAMINATION MARCH/APRIL 2014

NAME.....INDEX NO.....

CANDIDATES SIGN.....

DATE.....

443/1

AGRICULTURE

PAPER 1

MARCH/APRIL 2014

2 HOURS

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]

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

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

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

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

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

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

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

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

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

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

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

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13.Define the following terms as used in economics .

[a] National income .[1 mark]

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[b] Per capita income [1 mark]

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

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

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

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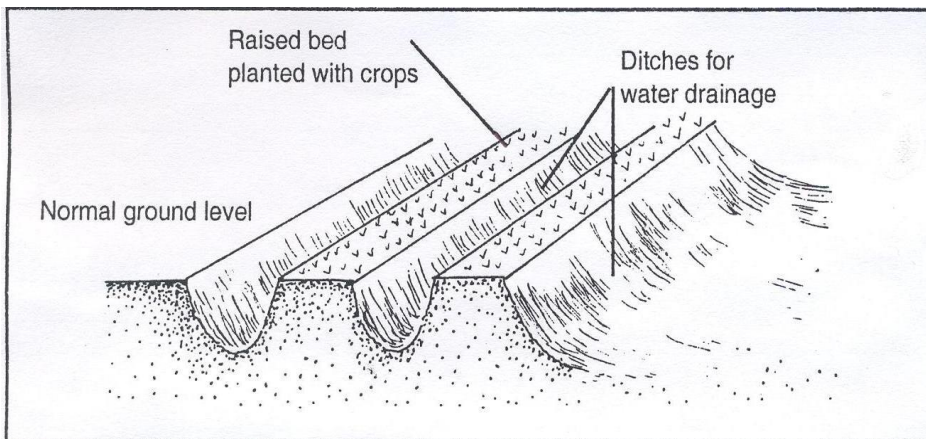
17.State four objectives Of land tenure reform . [2marks]

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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]

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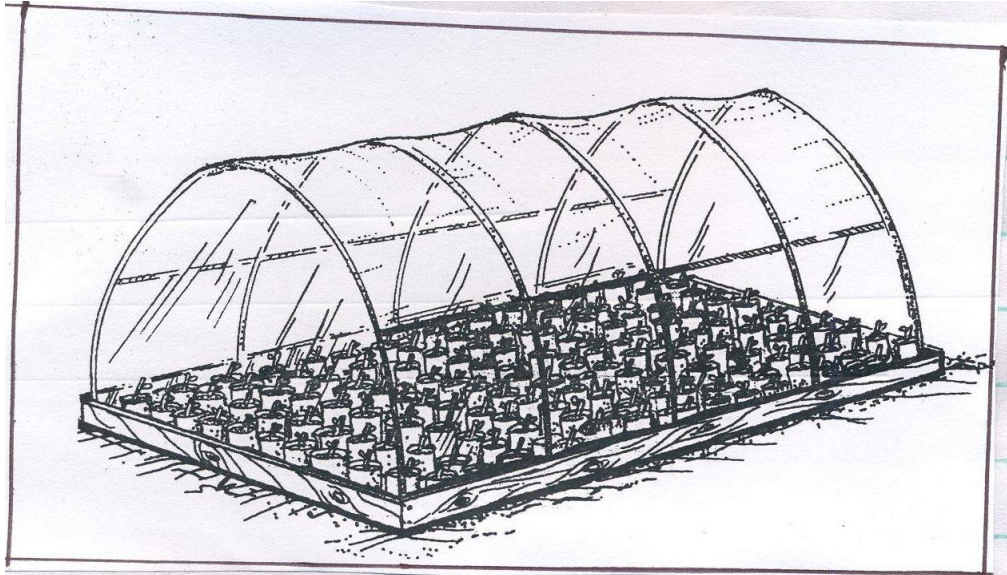
[b] State two functions of the above structure in agriculture . [2 marks]

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

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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)

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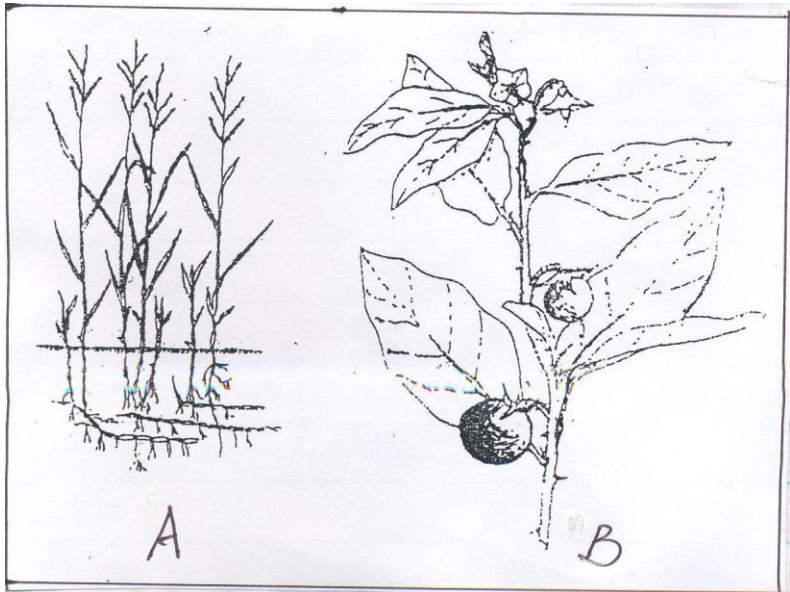
[b] Give two practices carried out when the tea seedlings are establishing in a nursery .[2marks]

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

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



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

A.....

B

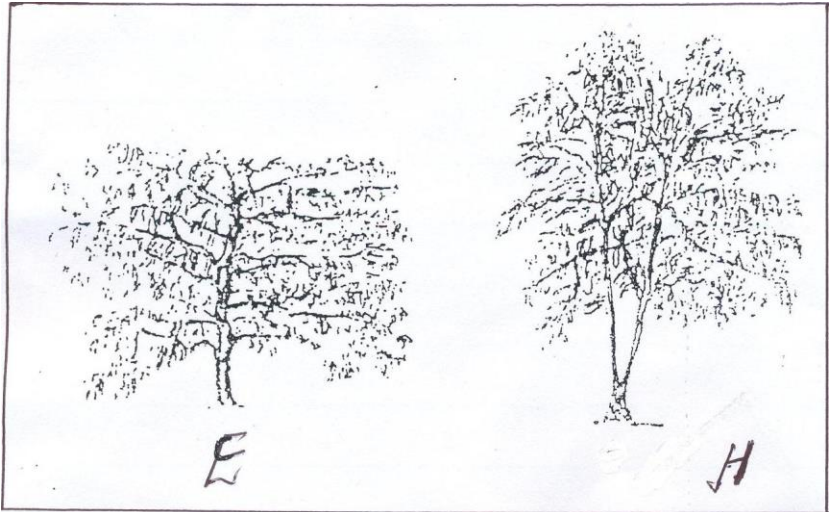
[b] State two economic importance of the weed shown in diagram A [2marks]

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

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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]

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

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

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

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SECTION C [40marks]

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

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

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

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

Sugarcane [2marks]

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Pyrethrum [3marks]

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

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

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

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

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ANSWERS:

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