F2 ENDYEAR ASSIGNMENT

AGRICULTURE

10+ HOLIDAY ASSESMENT PAPERS

Dear Students, Make Maximum Utilization of limited time Available to Attempt and Work on these Year-Round Examination Trials.

A Comprehensive Evaluation Analysis of F1 & F2 Syllabus Coverage.

SERIES 1

For Marking Schemes

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FORM 2 EXAMINATION TRIALS

AGRICULTURE

PRACTICE TEST 1

TIME: 2 HOURS

Answer All the questions in the spaces provided

1. Name FOUR main branches of **biology** **(2mks)**

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2. State FOUR characteristics of nitrogenous **fertilizers** **(2mks)**

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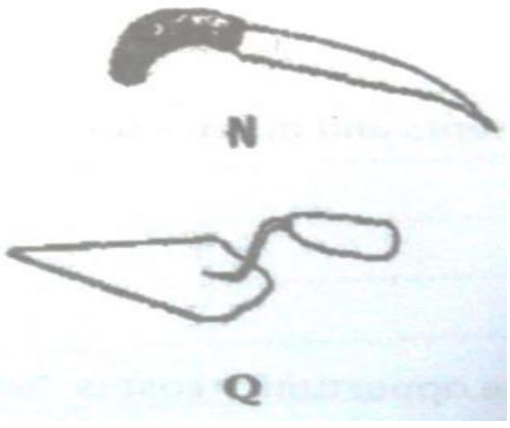
3. Differentiate between macro nutrient and micro **nutrients** **(1mk)**

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4. Diagram M, N,P and Q represents some farm tools





a) Identify the tools , M,N,P, and **Q** **(2mks)**

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b) Give the uses of the tools named above **(2mks)**

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5. Given that maize is planted at a spacing of 90 by 30 cm , calculate plant population in a plot of land measuring 4 by 3 m**.** **(3 mks)**

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6. State two soil sampling **methods** **(1mk)**

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7. Give an example of a crop in which the following vegetative propagation materials are used **(4mks)**

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8. Name two dairy breed of goat **(1mk)**

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9. State four advantages of using seeds as planting **materials** **(4mks)**

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10. Describe two chemical processes that are involved in soil formation **(2MK)**

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11. Differentiate between seed dressing and seed inoculation **(2mks)**

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12. A student was to apply a compound fertilizer 5:20:10 at the rate of 200 kg per hectare on her Agriculture project plot measuring 3 by 4 meters.

a) What do the figures 5 and 20 in the compound fertilizer above stand? **(1mk)**

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b) Calculate the amount of fertilizer she would require for the plot **(3mks)**

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FORM 2 EXAMINATION TRIALS

AGRICULTURE

PRACTICE TEST 2

TIME: 2 HOURS

Answer All the questions in the spaces provided

1. State two ways in which agriculture contributed to the industrial development **(1mk)**

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2. State four deficiency symptoms of phosphorous in plants **(2mks)**

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3. State four reasons why minimum tillage is encouraged in crop production **(2mks)**

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4. State four advantages of drip irrigation **(2mks)**

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5. Below are lists of plant elements / minerals. Study them carefully and answer the following questions.

- Nitrogen
- Sulphur
- Magnesium
- Iron
- Copper
- Boron
- Zinc
- Molybdenum
- Carbon
- Phosphorous

a) Of which of the above are macro-nutrients? **(1mk)**

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b) Of which of the above are primary macro-nutrient? **(1mk)**

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c) Of which of the above are micro-nutrients? **(1mk)**

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d) Of which of the above are liming elements? **(1mk)**

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6. a) State three factors which should be considered when constructing a compost pit **(1½mks)**

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b) Why should the following be added when preparing compose manure.

i. Top soil **(1mk)**

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ii. Previous compost/farm yard manure **(1mk)**

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iii. Wood ash **(1mk)**

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7. State three ways in which government policy influences agriculture **(1½mks)**

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8. State the functions of Boron in crop production **(1mk)**

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9. Differentiate between straight and compound fertilizers **(½mk)**

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10. Name any two methods which can be used to detect mineral nutrient deficiency in crops. **(2mk)**

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11. Under which condition does opportunity cost not exists **(1mk)**

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12. State the importance of soil testing **(2mks)**

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13. State three advantages of using seeds as planting materials **(½mk)**

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14. Name the part used to propagate the following crops **(3mks)**

a) Sisal

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b) Irish potato

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c) Maize

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d) Pyrethrum

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e) Pineapples

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f) Bananas

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15. a) State four factors to consider when sitting a nursery **(2mks)**

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b) Name two types of metallic pipes commonly used in the farm **(1mk)**

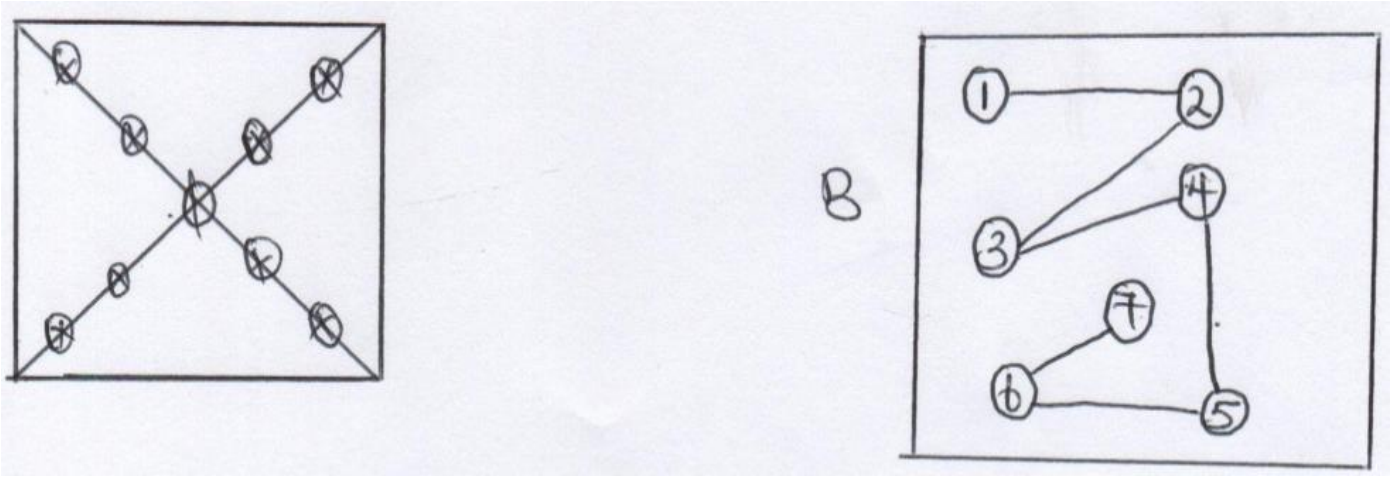
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SECTION B (30MKS)

Answer all questions in this section on spaces provided

16. Below are methods used in soil sampling study them and answer the questions below



a) Identify the method **A and B** **(2mks)**

Method **A** ……

Method **B** ……..

b) State four precautions taken when carrying the methods above **(4mks)**

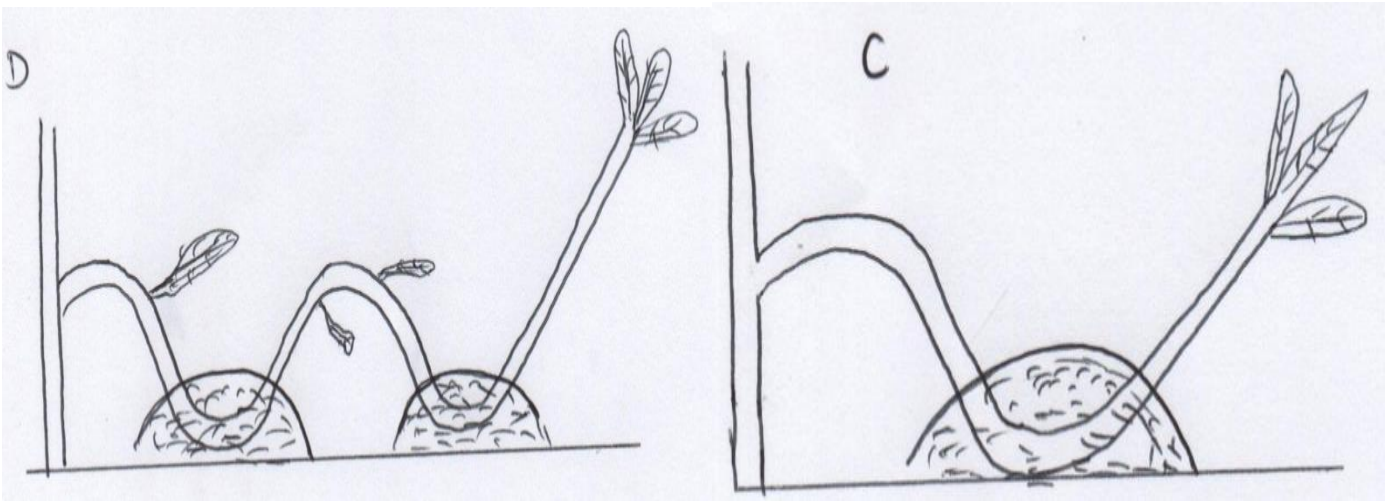
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17. Identify the types of layering shown **(2mks)**



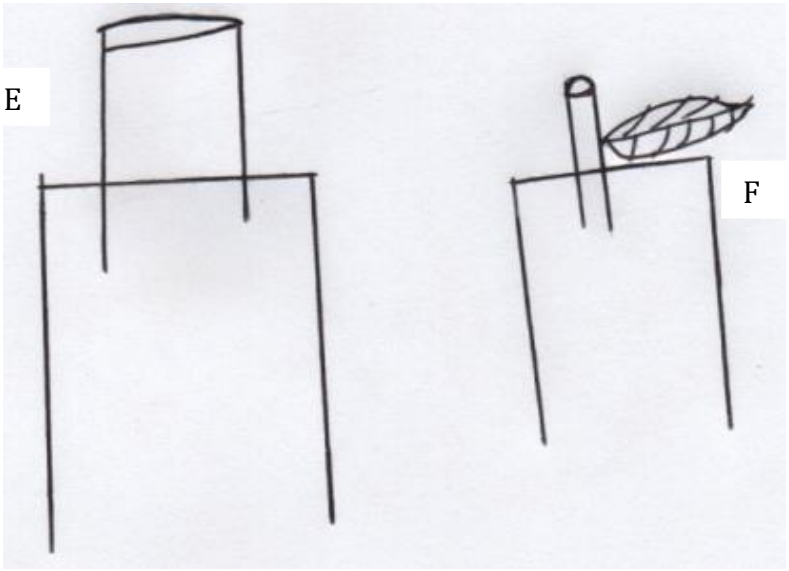
Layering C ……..

Layering D ……..

18. a) A farmer was advised to use 20kg of nitrogen, 30kg of phosphate and 15kg of potassium for growing crops. If the farmer has calcium ammonium nitrate 21% N_1 single supper phosphate 20% P_2O_5 and muriate of potash 50% K_2O in the store, calculate how much of CAN 21% N_1, SSP 20% P_2O_5, 50% K_2O will the farmer require. **(6mks)**

b) Money maker variety of tomatoes are spaced at 100cm x 60cm, calculate the number of plants in area of 4m x 3m **(3mks)**

19. The diagram E and F shows the cuttings, inserted into the sleeves of polythene bags.



a) In which diagram has the practice been done correctly? **(1mk)**

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b) Give a reason for your answer above **(1mk)**

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c) Describe the procedure of preparing the cuttings above **(3mks)**

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d) What precautions taken when preparing the cuttings above **(1mk)**

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20. Identify the breeds of livestock shown below **(2mks)**

G



H



J



K



Breed G ……

Breed H ……..

Breed J ……

Breed K ……..

b) State physical characteristics of

Breed H **(1mk)**

……

Breed K **(1mk)**

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21. The diagram below represent a bag of fertilizer observed in a shop. Study it carefully and answer questions that follow.

Kinoti chemicals
20-20-10
50 kgs
N0 hooks

a) Classify the fertilizer according to the nutrients contained **(1mk)**

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b) What is the fertilizer ratio of the fertilizer contained in the bag **(1mk)**

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c) Give reason why hooks are not used? **(1mk)**

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SECTION C

Answer any two questions on spaces provided.

22. a) State and explain four practices carried out on seedling in a nursery **(8mks)**

b) State six factors to consider when timing planting of crops. **(6mks)**

c) State six characteristics of a fertile soil **(6mks)**

23. a) State the properties of nitrogenous fertilizer **(6mks)**

b) Describe the procedure of soil sampling **(6mks)**

c) State and explain four factors that influence the spacing of maize in the field **(8mks)**

24. a) Describe importance of a nursery in crop production **(6 mks)**

b) Describe the factors to consider when selecting a nursery site for tomatoes **(10 mks)**

c) State four methods of fertilizer application on maize in the field **(4 mks)**

FORM 2 EXAMINATION TRIALS

AGRICULTURE

PRACTICE TEST 3

TIME: 2 HOURS

Answer All the questions in the spaces provided

1. **a)** What is soil sampling **(1mark)**

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b) State **two** soil sampling methods **(2marks)**

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2. Define the following term **(3 marks)**

a) chlorosis

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b) chitting

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c) plant population

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3. Give **two** symptoms common on crops deficient in nitrogen and potassium **(2marks)**

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4. Give **two** sources of phosphorous in the soil**.** **(2marks)**

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5. State **two** functions of iron in plants**.** **(2marks)**

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6. Distinguish between Fertilizer grade and Fertilizer ratio**.** **(2marks)**

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7. Give **two** type of labour records **(2marks)**

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8. Differentiate between macro-nutrient and micro-nutrient **(2marks)**

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9. Why is it not recommended to apply nitrogenous fertilizers at the time of planting **(2marks)**

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10. State **five** factor considered in timely planting **(5marks)**

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11. State **five** factors considered in choosing seed rate **(5 marks)**

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12. Explain **five** methods of fertilizer application **(5 marks)**

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13. List **five** importance of livestock **(5marks)**

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14. Name **five** uses of farm records **(5 marks)**

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15. Suppose a soil is deficient in all three primary macro-nutrient and in a field test it is found that the following should be applied: 60kg N, 30kg P_2O_5 and 40 kg K_2O per hectare.

Calculate the amount of Sulphate of ammonia, Single Superphosphate and Potassium Chloride required per hectare. Given that: Sulphate of Ammonia is (20% N), Single Superphosphate is (20% P_2O_5) and Muriate of Potash is (50% K_2O)

a) Sulphate of Ammonia **(2marks)**

b) Single Superphosphate **(2marks)**

c) Muriate of Potash **(2 marks)**

FORM 2 EXAMINATION TRIALS

AGRICULTURE

PRACTICE TEST 4

TIME: 2 HOURS

ANSWER ALL QUESTION IN THIS SECTION

1. List down any **two** branches of Agriculture. **(1mk)**

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2. Name the **three** primary macronutrients **(1½mks)**

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3. Name **four** common daily cattle breeds in Kenya **(2mks)**

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4. List **four** methods of fertilizer application **(2mks)**

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5. Name **four** tertiary operations during land preparations **(2mks)**

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6. Outline **three** causes of blossom end rot in tomatoes **(3mks)**

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7. Name **two** method of layering **(2mks)**

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8. Name **four** post harvesting practices infield crops **(2mks)**

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9. Name **two** methods used in pruning of coffee **(1mk)**

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10. List down **two** reasons for earthing up in carrots **(2mks)**

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11. Name **two** methods used in coffee pruning **(2mks)**

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12. What do you understand by the following terms as used in nursery practices **(2mks)**

a) Pricking out

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b) Hardening off

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13. Name **three** factors that determine the stage of harvesting in crops **(1½mks)**

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14. Outline **two** qualities of a good grain store **(2mks)**

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15. Why is use of manure discouraged when planting carrots **(1mks)**

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16. Highlight **two** qualities of plants used in preparation of green manure **(2mks)**

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17. Name **two** abiotic factors that influence Agriculture **(1mks)**

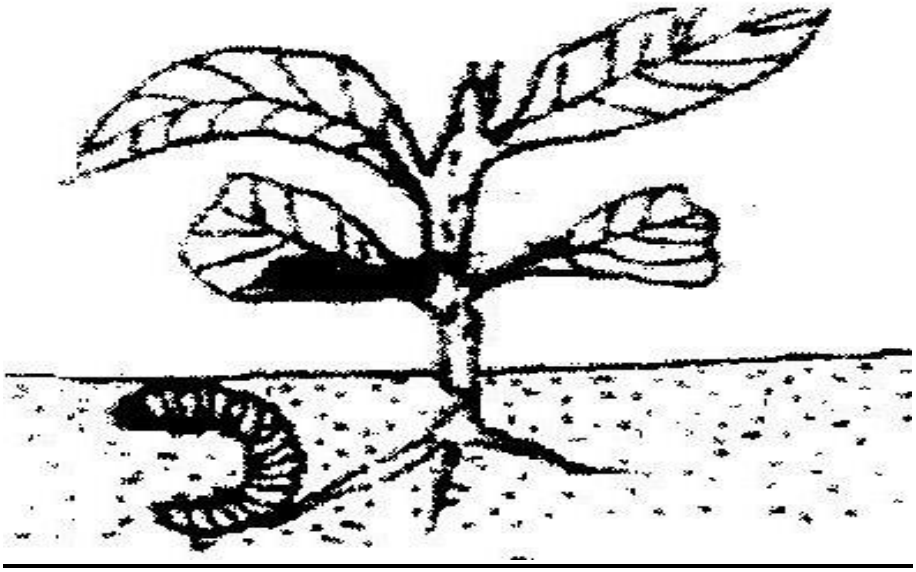
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(SECTION B 20 MARKS)

Answer All Questions In This Section

18. The diagram below shows a cabbage crop invested by a pest. Study it carefully then answer the questions that follow.



i) Identify the pest. **(1mk)**

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ii) What damage does the pest cause the crop? **(1mk)**

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iii) State **two** methods of controlling the pest **(2mks)**

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iv) Name any **two** diseases that attack cabbage in the field. **(2mks)**

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19. The diagram below shows a practice carried out in the nursery. Study it carefully then answer the questions that follow.



i) Identify the practice **(1mk)**

ii) Name the garden tool shown used in carrying out the practice **(1mk)**

iii) At what stage should the practice be carried out in vegetable seedlings**?** **(3mks)**

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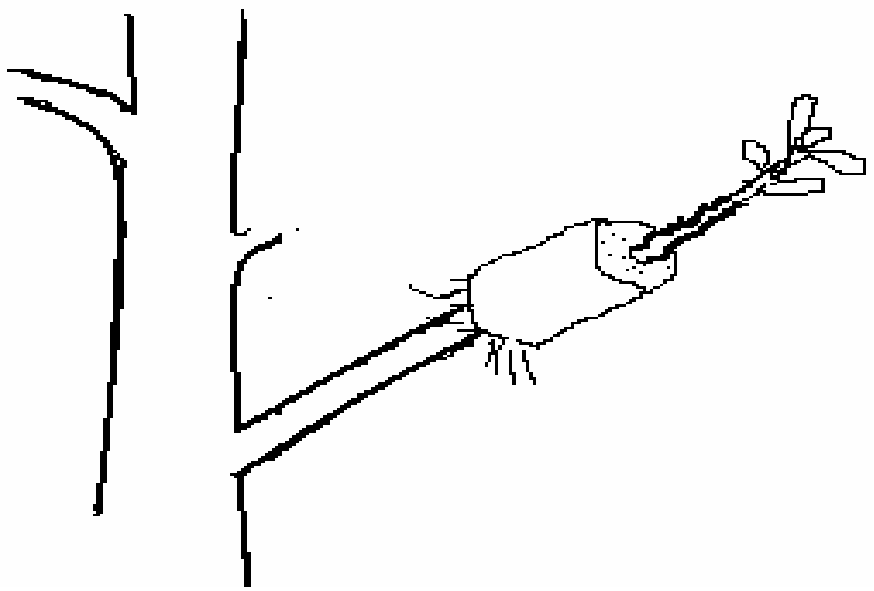
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iv) Explain why the nursery should be watered thoroughly before carrying out the practice **(1mk)**

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20. Below is an illustration carried out in vegetative crop propagation. Use it to answer the questions that follow.



i) Identify the method crop propagation illustrated **(1mk)**

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ii) Under what circumstances is the method preferred to the other methods **(1mk)**

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iii) Name **three** other type of the illustration method that can be used in crop propagation. **(3mks)**

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iv) A famer was advised to apply 150kg CAN while top dressing his maize field. CAN contain 21% nitrogen. Calculate the amount of Nitrogen applied per/ha. **(3mks)**

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(SECTION C 30 MARKS)

ANSWER ANY TWO QUESTIONS IN THIS SECTION

21. a) Discuss on the importance of organic mulching in crops **(10mks)**

b) What are the advantages of using seeds as planting materials **(5mks)**

22. a) Describe **five** nursery management practices **(10mks)**

b) Describe any **five** types of vegetables giving an example in each case **(5mks)**

23. a) Discuss on tomato production under the following sub headings

i) Varieties **(2mks)**

ii) Field management practices **(8mks)**

b) Outline any **five** factors that determine spacing in crops during planting **(5mks)**

FORM 2 EXAMINATION TRIALS

AGRICULTURE

PRACTICE TEST 5

TIME: 2 HOURS

Answer All the questions in the spaces provided

1. Name three equipments used for large scale over head irrigation. **(3mks)**

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2. Name three beef cattle breeds **(3mks)**

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3. Distinguish between each of the following pair of terms as used in crop production

a). Thinning and rogueing **(2mks)**

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b). Seedling bed and nursery bed **(2mks)**

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4. State three agricultural practices that pollute surface water sources **(3mks)**

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5. State three benefits of using vegetative propagation in orange production **(3 mks)**

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6. Name one vegetative material used to propagate each of the following:

i. Bananas **(1mk)**

ii. Pineapples **(1mk)**

iii. Irish potatoes **(1mk)**

iv. Pyrethrum **(1mk)**

7. Give two activities carried out during hardening off tomato seedlings **(2mks)**

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8. Differentiate between olericulture and pomoculture **(2mks)**

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9. State three advantages of shifting cultivation **(3mks)**

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10. State three advantages of adding organic matter to sandy soils. **(3mks)**

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11. a). Differentiate between macro – nutrients and micro – nutrients **(2mks)**

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b). State two functions of calcium in plant growth and development **(2mks)**

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12. Name three implements used for primary cultivation **(3mks)**

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13. State three factors that influence soil formation. **(3 mks)**

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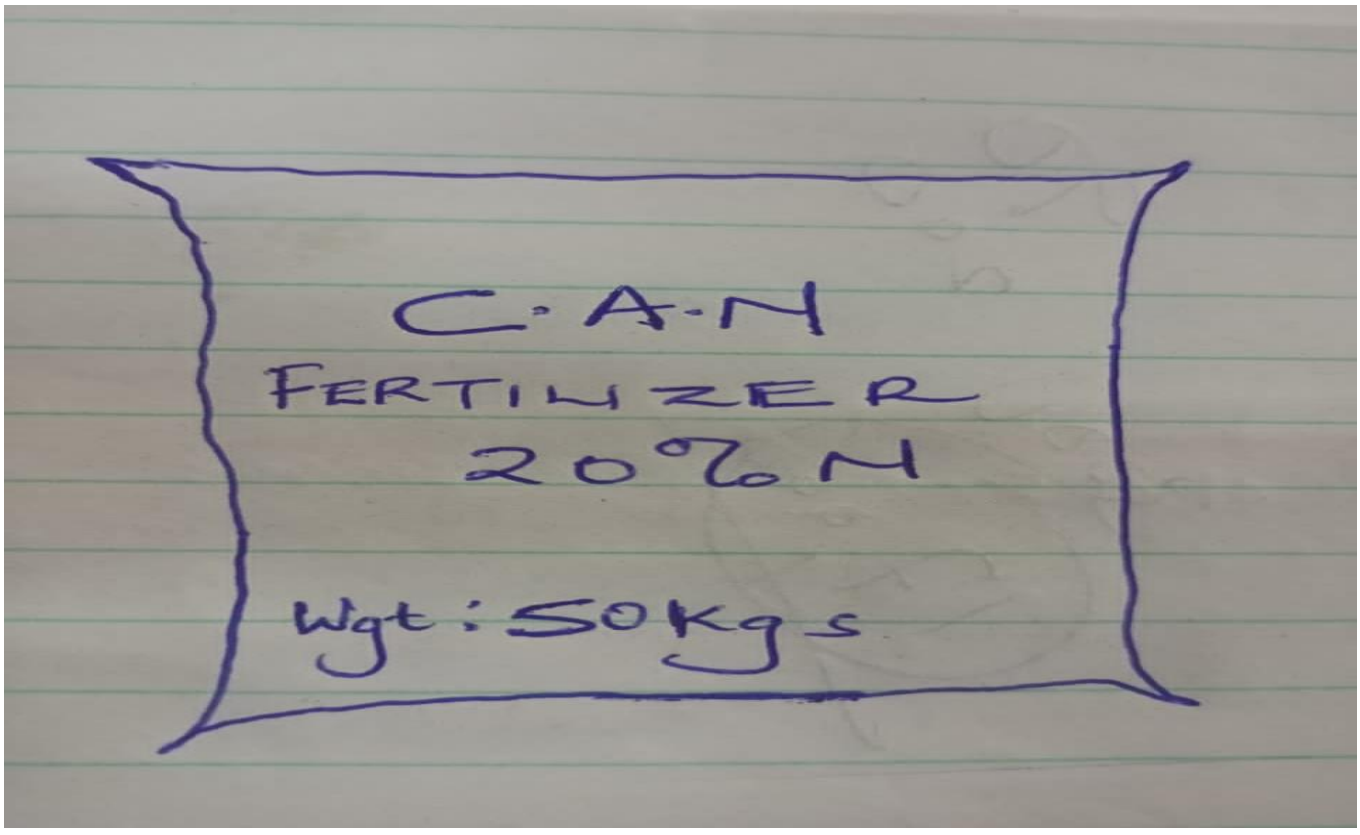
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SECTION B (2OMKS)

ATTEMPT ALL QUESTIONS

14. The diagram below shows a bag of Calcium Ammonium Nitrate fertilizer.



a). Classify the fertilizer **(1mk)**

b). Explain the effect of applying the above fertilizer on soil pH. **(1mk)**

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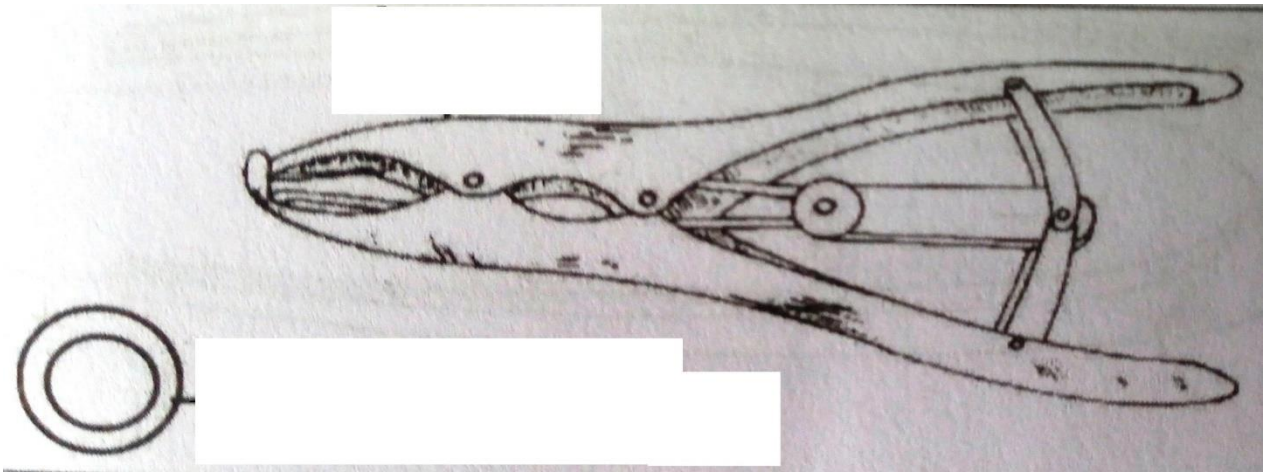
c). A farmer was advised to apply 50kgs of Nitrogen per hectare. How many bags of the above fertilizer will this farmer require for one hectare? Show your working**.** **(3mks)**

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15. Below is a diagram of a tool used in livestock rearing



a). Identify the tool **(1mk)**

b). State two uses of the tool. **(2mks)**

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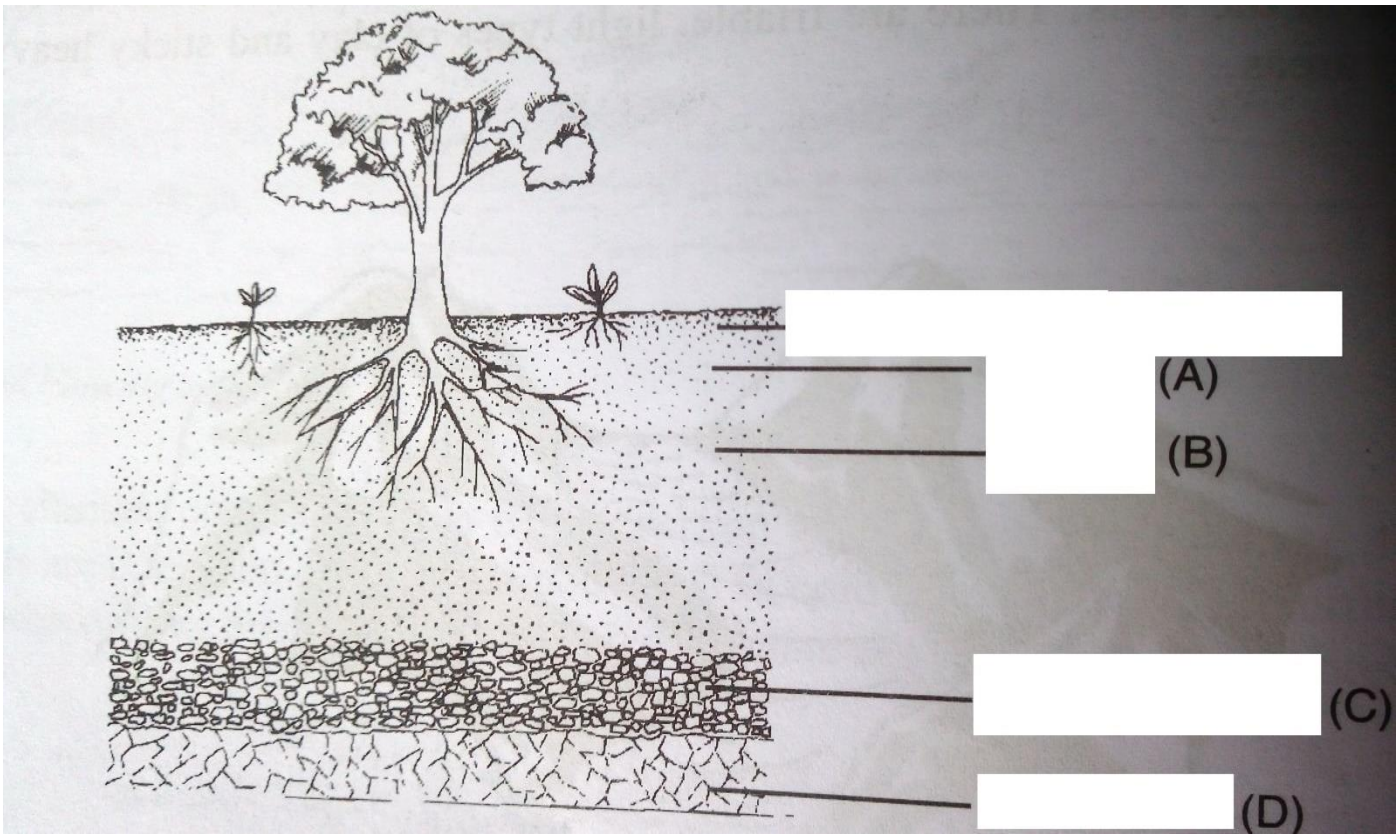
c). Give two reasons why farmers prefer using the tool **(2mks)**

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16. The diagram below illustrates a feature observed after digging the soil several metres deep. Study the diagram and answer the questions that follow.



a). Identify the feature that the diagram above represents in the study of soil **(1mk)**

b). Name the parts of the diagram labeled **A, B, C and D.** **(4mks)**

A

B

C

D

c). State two ways in which the knowledge of the above feature would be of benefit to a farmer.

(2mks)

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17. Sabasaba Secondary School agriculture students visited a dairy cattle farm and found the following record. Study it and answer the question that follow.

Date	Disease Symptom	Animal(s) Affected	Drugs Used	Cost of Treatment Given	Remarks

a). Name the record shown above **(1mk)**

b). State two importance of the above record to the farmer **(2mks)**

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SECTION C (40MKS)

ATTEMPT ALL QUESTIONS

18. a). Explain seven factors that determine the spacing of a crop. **(7mks)**

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b). Explain three advantages of timely planting **(3mks)**

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19. a). Give reasons why some seeds are established in a nursery before being transported to the seed bed**.** **(6mks)**

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b). Giving an example, name four types of vegetables that can be grown in Kenya. **(8mks)**

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20. a). State and explain seven ways through which soil fertility can be lost. **(14 mks)**

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b). State and explain six biotic factors that influence crop production. **(6mks)**

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FORM 2 EXAMINATION TRIALS

AGRICULTURE

PRACTICE TEST 6

TIME: 2 HOURS

Answer All the questions in the spaces provided

1. State four systems of farming. **(2mks)**

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2. State two effects of HIV/AIDS on agricultural production. **(2mks)**

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3. List four physical agents of weathering. **(2mks)**

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4. List four factors influencing soil formation. **(2mks)**

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5. Name two types of water pumps. **(2mks)**

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6. Mention two tertiary operations carried out during land preparation. **(1mk)**

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7. Outline four characteristics of a fertile soil. **(2mks)**

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8. Give two characteristics of plant used for preparing green manure. **(2mks)**

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9. Differentiate between a root stock and a scion as used in grafting. **(2mks)**

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10. Name two forms in which nitrogen is absorbed by plants. **(2mks)**

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11. State two deficiency symptoms of Nitrogen. **(2mks)**

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12. List four examples of phosphatic fertilizers. **(2mks)**

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13. A farmer was asked to apply fertilizers as follow: 200 kg/ha of DSP (40% P_2O_5), 150kg/ha of sulphate of ammonia 20% Nitrogen and 150kg/ha of Muriate of Potash 60% K_2O)

a) How much P_2O_5 did the farmer apply per ha. **(2mks)**

b) How much K_2O did the farmer apply per ha. **(2mks)**

c) How much nitrogen did the farmer apply per/ha. **(2mks)**

14. State two methods of pH testing. **(2mks)**

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15. Outline four disadvantages of mulching in crop production. **(2mks)**

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16. List 3 factors that determine the time of harvesting farm produce. **(3mks)**

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17. State four post harvesting practices. **(2mks)**

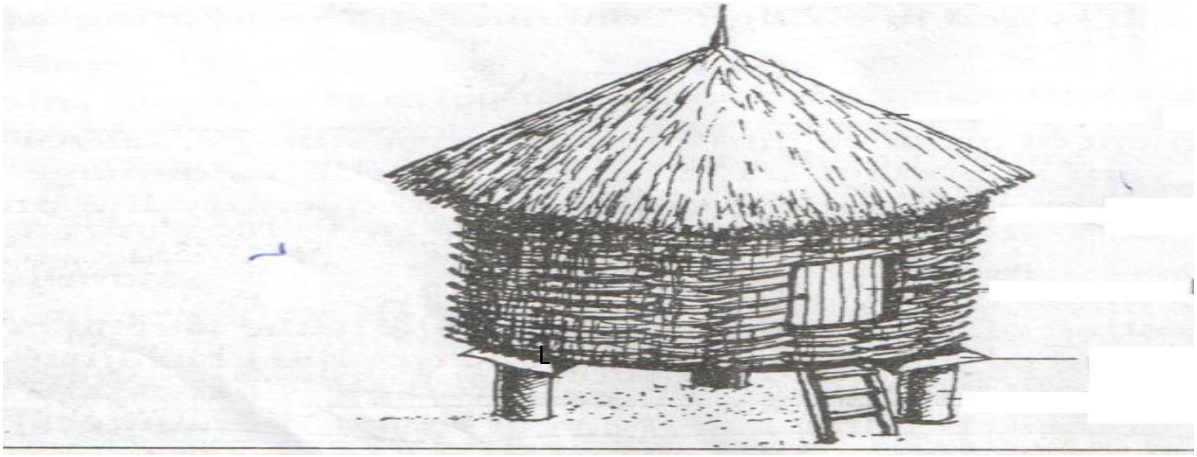
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18. The diagram below shows a type of storage facility. Use it to answer question that follow.



a) Name the structure. **(1mk)**

b) Name part L and state its function. **(2mks)**

c) Name the roofing material the structure is made of: **(1mk)**

d) List three limitations of the above structure. **(3mks)**

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e) Give two preparations that the farmer should make on the above structure before the crop produce is brought in. **(2mks)**

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19. Give four categories of vegetables. **(2mks)**

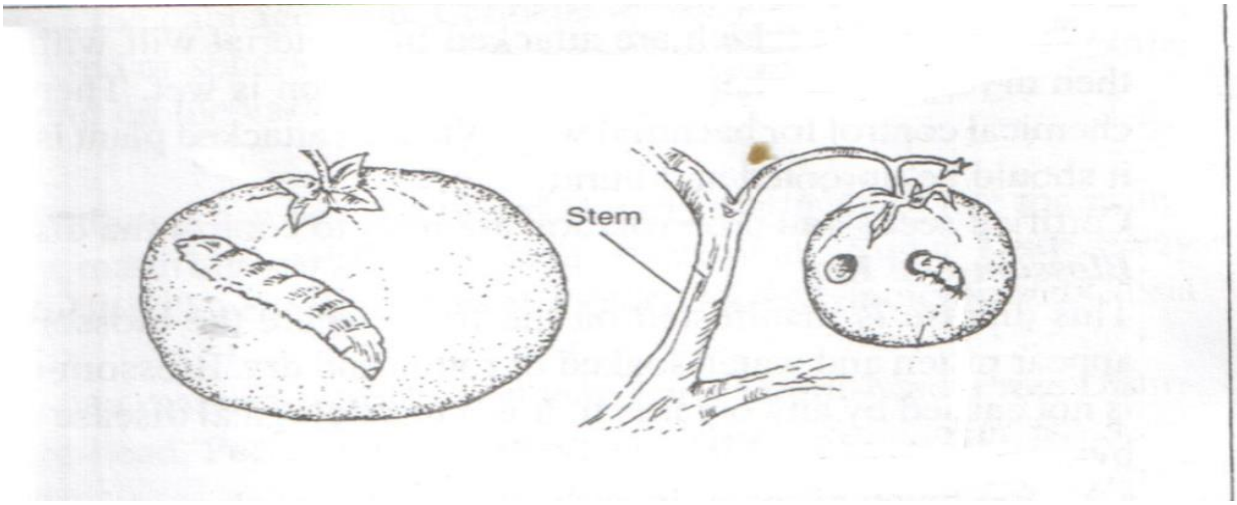
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20. The diagram below represents a pest that attacks tomatoes.



(a) Identify the pest. **(1mk)**

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(b) State two control measures of the above pest. **(2mks)**

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21. **(a)** Differentiate between health and disease as used in livestock health. **(2mks)**

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(b) State four factors that predispose livestock to diseases. **(4mks)**

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(c) Outline 3 routine management practices of disease control. **(3mks)**

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(d) State three activities in livestock health that necessitate handling of animals. **(3mks)**

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22. (a) List two harmful effects of tsetse fly infestation to livestock. **(2mks)**

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(b) Name:

Intermediate host for tapeworm. **(1mk)**

Intermediate host for liverfluke. **(1mk)**

(c) Give two examples of one host tick. **(2mks)**

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FORM 2 EXAMINATION TRIALS

AGRICULTURE

PRACTICE TEST 7

TIME: 2 HOURS

Answer All the questions in the spaces provided

1. Define the following terms **(2mks)**

a) Entomology

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b) pomology

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c) Apiculture

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d) olericulture

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2. Outline four aspects of rainfall important in Agriculture **(2mks)**

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3. State the four physical agents of weathering **(2mks)**

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4. Give four effects of biotic factors in the soil **(2mks)**

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5. Distinguish between rip saw and cross-cut saw **(1mks)**

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6. For each of the following tools give two examples **(2mks)**

a) file

b) scrappers

c) chisels

d) gauged marking tools

7. Describe four conditions necessary for land clearing to take place **(2mks)**

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8. State four reasons why burning as a method of land clearing is discouraged. **(2mks)**

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9. a) What is minimum tillage? **(1mk)**

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10. Distinguish between a weir and a dam **(1mk)**

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11. Give two types of each of the following pipes **(1mks)**

i) Hose pipes

ii) Metal pipes

12. Identify two dairy goats **(1mk)**

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13. Give four benefits derived from a camel **(2mks)**

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14. Differentiate between macro nutrients and micro-nutrients **(1mks)**

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15. Highlight the functions of phosphorus in plants **(2mks)**

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16. Give four fertilizers that can be used during planting in crops **(2mks)**

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17. List any four methods of harvesting crops **(2mks)**

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18. Highlight any two diseases that attack cabbages **(1mk)**

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19. List any two insect-pests that attack tomatoes **(1mk)**

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SECTION B (30MKS)

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

a) Identify what is being tested in the above set-up **(1mk)**

……

b) Identify the most ideal soil for most crops **(1mk)**

……

c) Give two ways of improving the clay soil to be used for cultivation **(2mks)**

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d) Describe four characteristics of clay soils **(4mks)**

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21. The diagram below represents a hand saw study it and answer the questions that follow

f) Name the parts marked P,Q,R,S and T **(2 ½ mks)**

P

Q

R

S

T

g) Give four maintenance practices for the above saw **(4mks)**

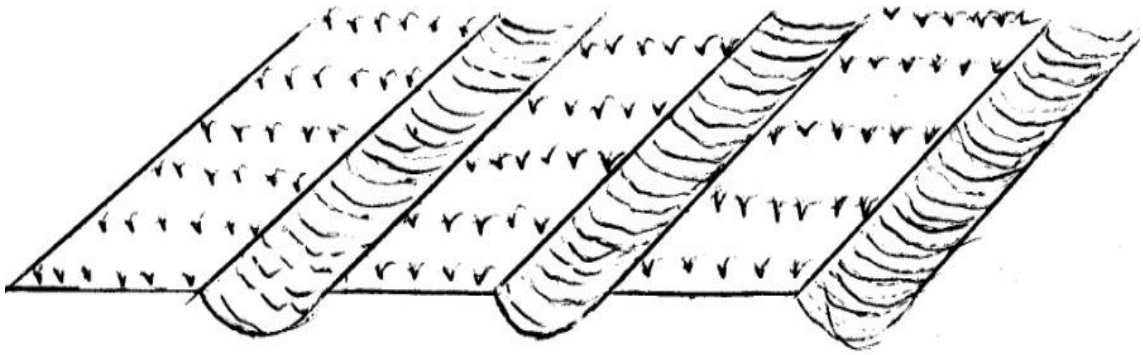
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22. Study the diagram below and answer the questions that follow



(i) identify the structure above **(1mks)**

(ii) State the function of the structure in (a) above **(1mks)**

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(iii) State the importance of activity carried by the structure in (a) above **(4mks)**

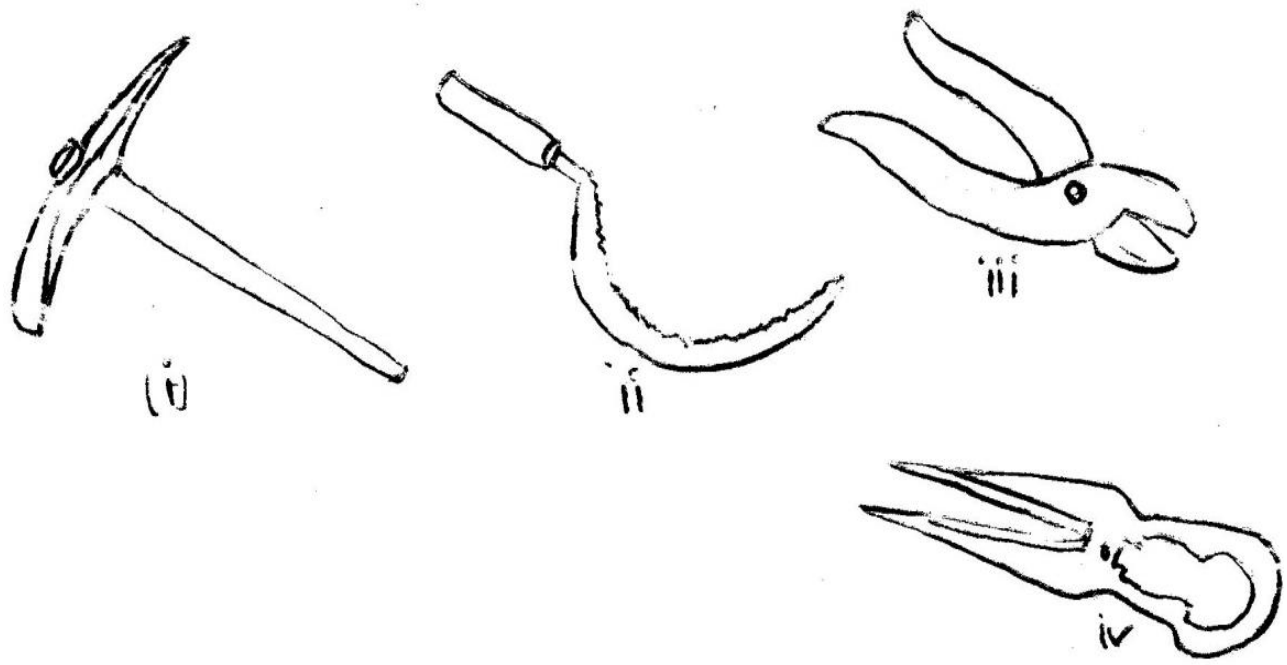
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23. Study the diagrams below and answer the questions that follow



a) Identify tools **(i), (ii), (iii), (iv)** **(4mks)**

a)

b)

c)

d)

b) Give the use of each of the tools named in (a) above **(4mks)**

d)

e)

f)

g)

SECTION C(40MKS)

24. a)Name and explain the importance of Agriculture in the economy of Kenya **(6mks)**

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b) Give practices carried out in minimum tillage **(7mks)**

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c) Describe the benefits of minimum tillage **(7mks)**

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25. a) Highlight the importance of water treatment **(4mks)**

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b) Describe four characteristics of a fertile soil **(6mks)**

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c) State any four characteristics of nitrogenous fertilizers **(6mks)**

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d) Describe four characteristics of a good storage structure **(4mks)**

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FORM 2 EXAMINATION TRIALS

AGRICULTURE

PRACTICE TEST 8

TIME: 2 HOURS

SECTION A (30MKS)

Answer All the questions in the spaces provided

1. What is Health **(1mk)**

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2. State 4 symptoms of potassium deficiency in crops**.** **(2mks)**

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3. State the information contained in a composite sample of soil before being taken to the laboratory. **(1½mks.)**

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4. Give 4 disadvantages of using vegetative propagation materials. **(2mks)**

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5. Given that maize is planted at a spacing of 75 by 25 cm. calculate the plant population in a plot of land measuring 8 by 6m**.** **(3mks)**

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6. Differentiate between mono-cropping and intercropping **(1mk)**

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7. Define the following terms as used in agriculture

Rogueing **(1mk)**

Gapping **(1mk)**

8. State any four disadvantages of using non capped multiple stem pruning in coffee. **(2mks)**

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9. Give 4 characteristics of a good grain store**.** **(2mks)**

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10. State the intermediate host of the following livestock parasite.

Taenia solium **½mk**

Taenia sagnata **½mk**

Liver **fluke** **½mk**

11. Give 4 control measures of Tse tse flies**.** **(2mks)**

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12. State disadvantages of overhead irrigation**.** **(2mks)**

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13. State the uses of the following farm tools and equipment

a) Dibber **(1mk)**

b) Garden trowel **(1mk)**

c) Stock and die **(1mk)**

d) Pipe wrench **(1mk)**

14. State the function of the following materials in preparation of compost manure.

(a) Well rotten manure **(1mk)**

(b) Wood ash **(1mk)**

(c) Top soil **(1mk)**

15. Differentiate between Essex saddleback and Wessex saddleback**.** **(1mk)**

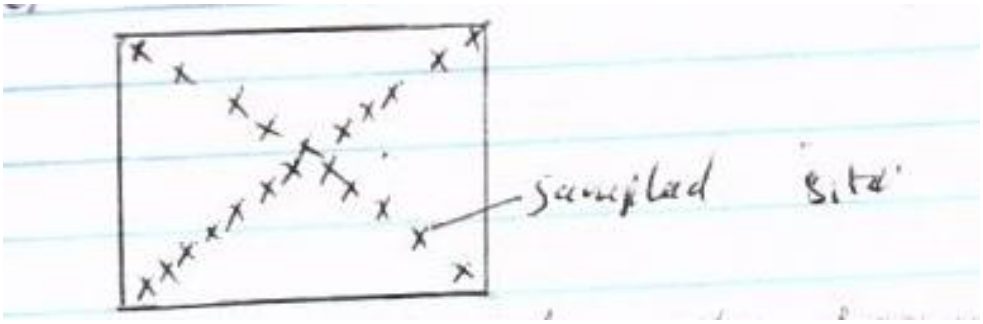
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SECTION B (30MKS)

16. The diagram below shows a method of soil sampling



a) Name the method illustrated in the diagram above**.** **(1mk)**

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b) State 3 precautions taken when collecting the soil for testing using the above method. **(3mks)**

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c) Give 4 reasons why soil from the farm is tested. **(4mks)**

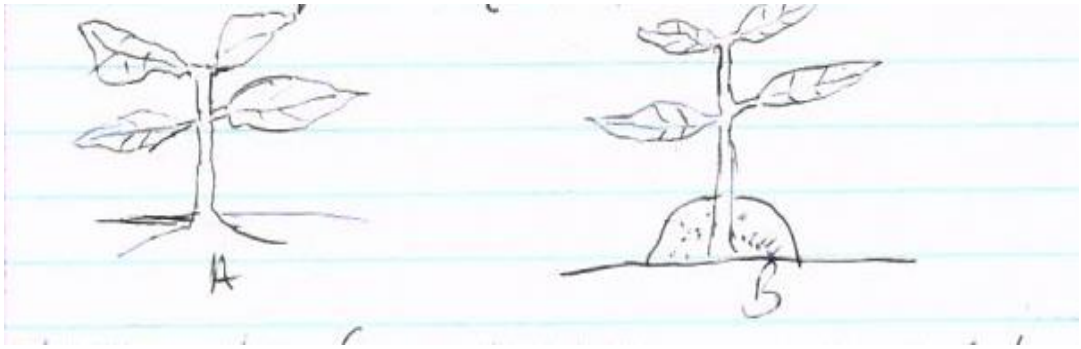
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17. The diagram below shows a practice carried out on various crops on the farm. Study them carefully and answer the questions that follow.



a) Identify the farm practice represented by B**.** **(1mk)**

……

b) State the importance of the above practice in the following crops

Maize **(1mk)**

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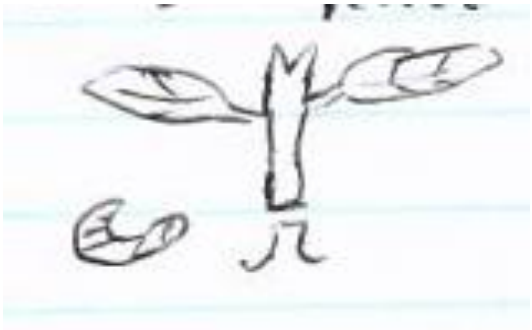
Irish potatoes **(1mk)**

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c) At what stage of growth should the above practice be carried out in maize. **(1mk)**

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18. The diagram below shows Kale seedling attached by a pest.



a) Identify the pest**.** **(1mk)**

b) What damage does that pest causes to the crop.l **(1mk)**

c) State two methods of controlling the pest**.** **(2mks)**

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19. State any 5 general characteristics of indigenous breed of cattle**.** **(5mks)**

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20. State any 5 factors considered when selecting a nursery site**.** **(5mks)**

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21. State conditions that necesiate land clearing **(4mks)**

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SECTION C(40mks)

22.a) State and explain 5 characteristics of a fertile soi**l** **(10mks)**

b) State symptoms of attack by a liver flukes in livestock**.(5mks)**

c) describe any five factors influencing crop rotation**.** **(5mks)**

iii) Describe reasons for prunning in crops**.** **5x 2=10mks.**

b)discuss 5 effects of HIV/AIDS and ill-health on Agriculture**.** **(5mks)**

c) discuss 5 problems associated with the use of organic manure**.** **(5mks)**

FORM 2 EXAMINATION TRIALS

AGRICULTURE

PRACTICE TEST 9

TIME: 2 HOURS

Answer All the questions in the spaces provided

1. Define the term Agriculture. **1mk**

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(a) Give the meaning of the following terms as used in Agricultural Production.

1½mks Olericulture……...

……

(b) Pomoculture……..……

……..

(c) Floriculture……

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2. State **four** advantages of mixed farming. **2mks**

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3. State **four** importance of Agriculture. **2mks**

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4. Give **four** ways in which Health influence Agricultural production. **2mks**

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5. State **three** negative effects of wind in crop production. **1½mks**

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6. State **four** aspects of rainfall that influence agricultural production. **2mks**

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7. a)Name two dual purpose cattle breed reared in Kenya **(1mk)**

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b)Outline four general characteristics of indigenous cattle breed **(2mks)**

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8. Give **two** reasons why burning is discouraged as a method of clearing land **.(1mk)**

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9. State **three** tertiary operations that are carried out in the farm. **1½mks**

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10. Give **three** importance of carrying out minimum tillage **1½mks**

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11. State **four** importance of drainage in Agriculture **2mks**

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12. Give **three** reasons as to why green manure is not commonly used. **1½mks**

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13. State **three** basic concept of economics. **1½mks**

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14. State **four** roles of Nitrogen in plants. **2mks**

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15. Outline **three** characteristics of Nitrogenous fertilizers. **1½mks**

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16. State **three** impotances of testing soil. **1½mks**

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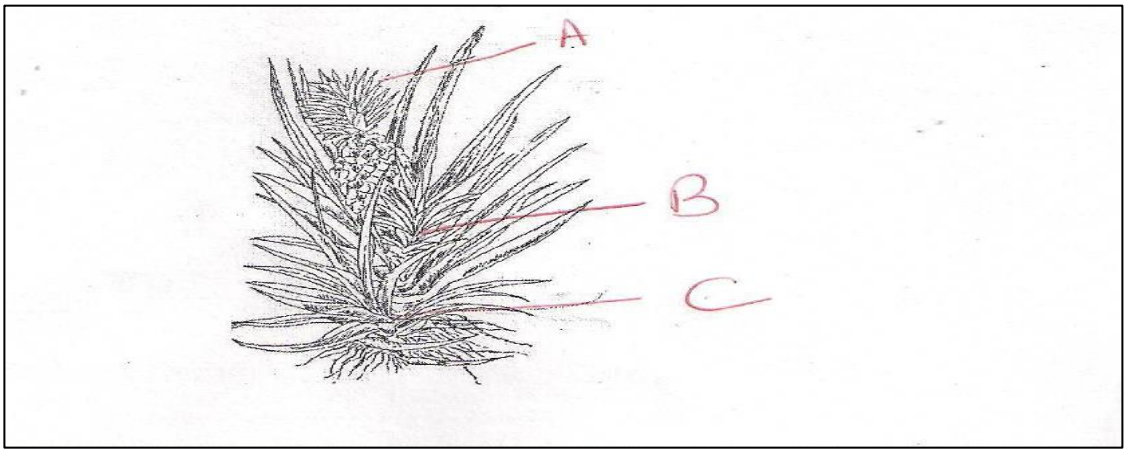
17. Give **two** areas to avoid when carrying out soil sampling. **1mk**

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SECTION B(*Answer all the questions in this section)*

18. The following is a diagram of a certain crop. Study it carefully and answer the questions that follow.



22. Identify the crop …….. **1mk**

23. Label the parts labeled A ,B and C. **1½mks**

A……

B……

C……

24. State **four** factors to be considered when selecting materials for planting. **2mks**

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25. State **four** factors which determine the depth of planting. **2mks**

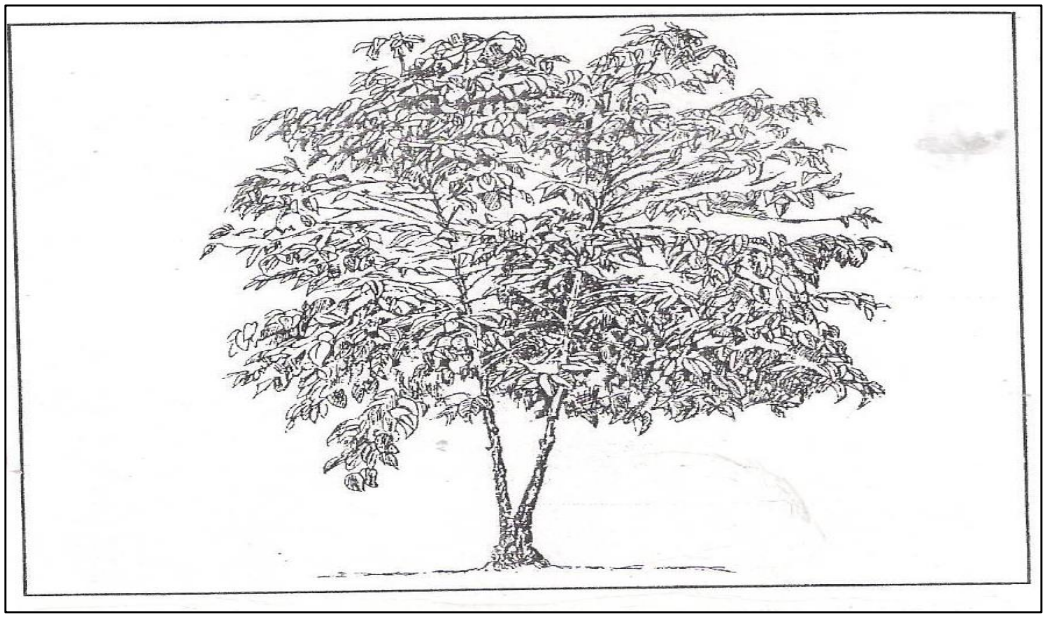
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19. The following is a pruned crop. Study it carefully and answer the questions that follows.



a) Identify the method of pruning. **1mk**

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b) Give **four** disadvantages of using the above method of pruning. **2mks**

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c) Apart from the above give any other method of pruning coffee. **1mk**

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d) State **four** factors which determine the time of harvesting crops. **2mks**

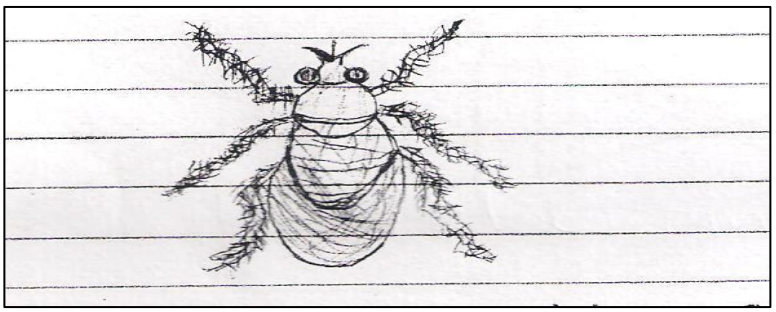
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20. Study the diagram below and then answer the questions that follows:-



a) Identify the parasite shown above **(1mk)**

……

b) Name the livestock species attacked by the parasite above **($1\frac{1}{2}$mks)**

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c) How does the above parasite obtain it's food from the host? **(1mk)**

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d) What are the harmful effects of the parasite you have mentioned in (a) above? **(2mks)**

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e) How would a farmer control the above parasite **(2mks)**

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SECTION C.

(Answer any TWO questions in this section.)

22a) State five reasons for keeping animals healthy **5mks**

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b) State 5 predisposing factors to livestock diseases. **5mks**

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c)Discuss FIVE importances of crop rotation in crop production. **10mks.**

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23 (a) State and explain FIVE nursery management practices. **10mks**

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(b) Describe 6 factors influencing spacing of crops.. **6mks**

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(c) state FOUR methods of preparing planting materials **4mks**

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24. a) Describe importance of Drainage as a land Reclamation method. **6mks.**

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b. Discuss 6 characteristics of fertile soil. **6mks.**

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c. Explain any 4 factors to consider in choosing seed rates. **8mks.**

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FORM 2 EXAMINATION TRIALS

AGRICULTURE

PRACTICE TEST 10

TIME: 2 HOURS

SECTION A(30MKS

Answer All the questions in the spaces provided

1. List any four types of records a farmer should keep. **(2marks)**

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2. Give two conditions in agricultural production under which opportunity cost is zero **(1 mark)**

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3 Give **four** reasons-for keeping livestock health records on the farm. **(2 marks)**

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4. State 4 reasons for primary cultivation. **(2marks)**

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5. Distinguish between soil structure and soil **texture** **(1mark)**

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6. State one function for each of the following:

(a) shovel; **(1 mark)**

……

(b) strip cup. **(1 mark)**

……

7 Differentiate between olericulture and **pomoculture** **(2mks)**

……

……

8 State four conditions under which shifting cultivation is practiced**.** **2mks**

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9 State 3 reasons why agriculture is important in Kenya's economy **(3mks)**

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10 Name the exotic cattle with

i)Highest butter fat content …… **(1marks)**

ii) Lowest butter fat content …… **(1mark)**

11. State two characteristics of goats that make them adaptable to arid areas of Kenya. **(1mark)**

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12 Give four ways by which soil loses its **fertility** **(2marks)**

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13 State four characteristics that make a crop suitable for green manuring**.** **(2marks)**

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14 State four ways in which burning of vegetation may lead to loss of soil fertility. **(2 marks)**

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15. What is the function of each of the following ingredients in the preparation of compost manure?

(a) Wood ash **(1 mark)**

(b) Top soil **(1 mark)**

16 Give 4 reasons why water treatment is important. **(2marks)**

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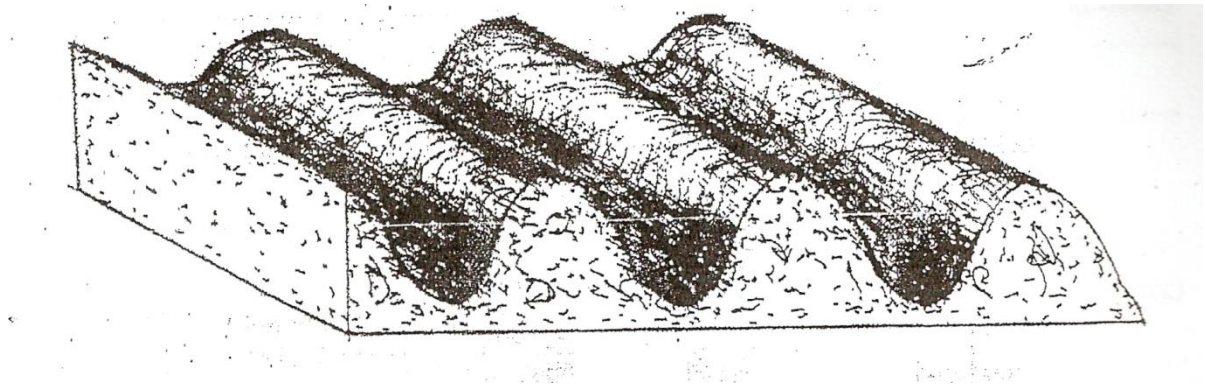
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SECTION B (30MARKS

17. The diagram below illustrates a final seedbed after a tertiary operation done during land preparation. Study it carefully and answer the questions that follow.



(a) Name the tertiary operation carried out on the seedbed **(1mark)**

……

b) Give two advantages of planting crops on a final seedbed illustrated above **(2 marks)**

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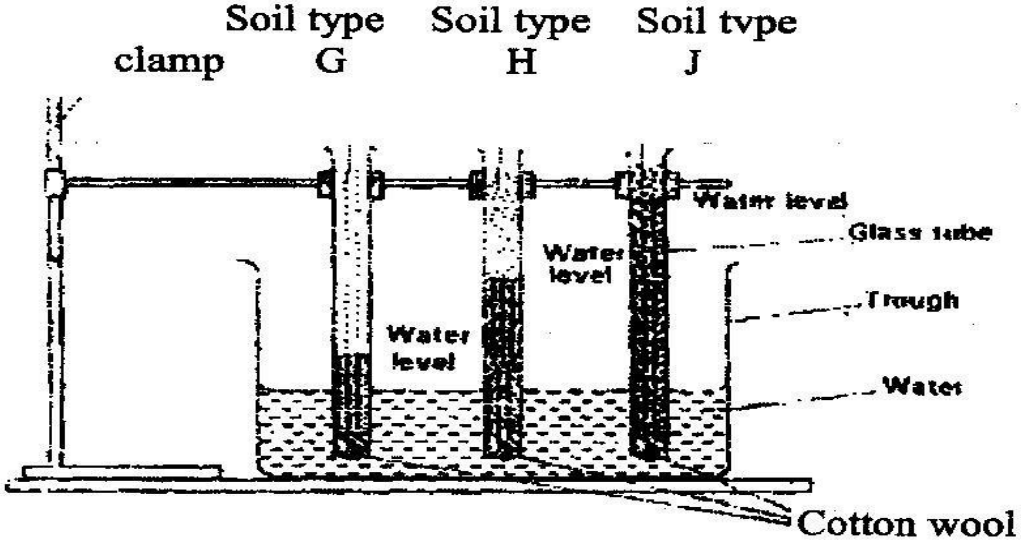
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18 a) List two aspects of light that influence crop growth**.** **(2marks)**

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b The diagram below shows an experiment set up using soil types G , H and J and observations made after 24 hours. Study the diagram and answer the questions that follow.



d) What is the experiment represented above designed to study**?** **(1mark)**

……

ii) Name the soil types G and J **(1mark)**

……

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iii) What is the characteristic texture of soil types G and J**?** **(2marks)**

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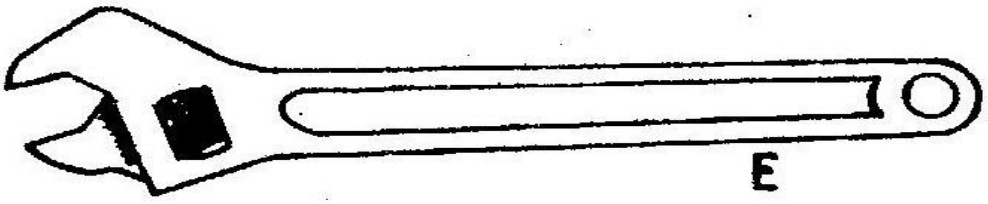
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iv) State how a farmer would improve the structure of soil type G**.** **(1mark)**

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19 Study the diagrams of workshop tools shown below





(i) Identify the tools labeled E and F **(1 mark)**

E _____

F _____

(ii) What functional advantage does tool E have over tool F**?** **(1 mark)**

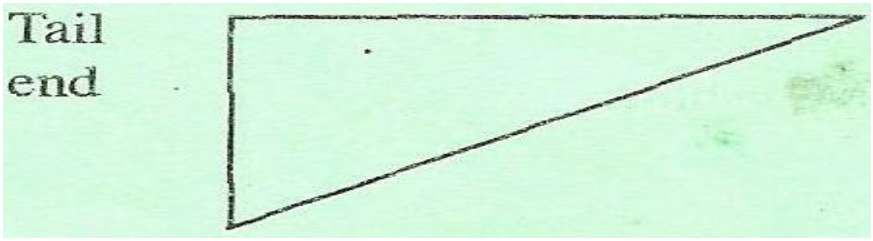
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20.

The diagram below illustrates the general shape of a cattle breed. Study it carefully and answer the questions that follow.

HEAD



(a) Identify the type of breed illustrated by the above shape **(1mark)**

……

(b) Give an example of a breed in (a) above. **(1 mark)**

……

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(c) State four physical characteristics of the type of breed identified in (a) above. **(2 marks)**

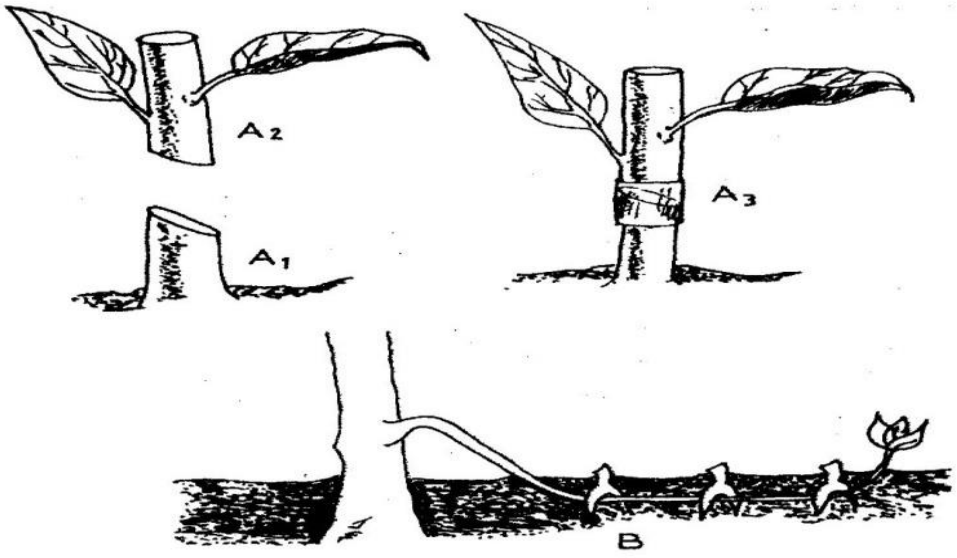
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21. The diagrams labeled A_1, A_2, A_3, and B below illustrate materials and methods of vegetative propagation. Study them and answer the questions that follow.



(a) Name the parts labeled A_1, and A_2 **(2 marks)**

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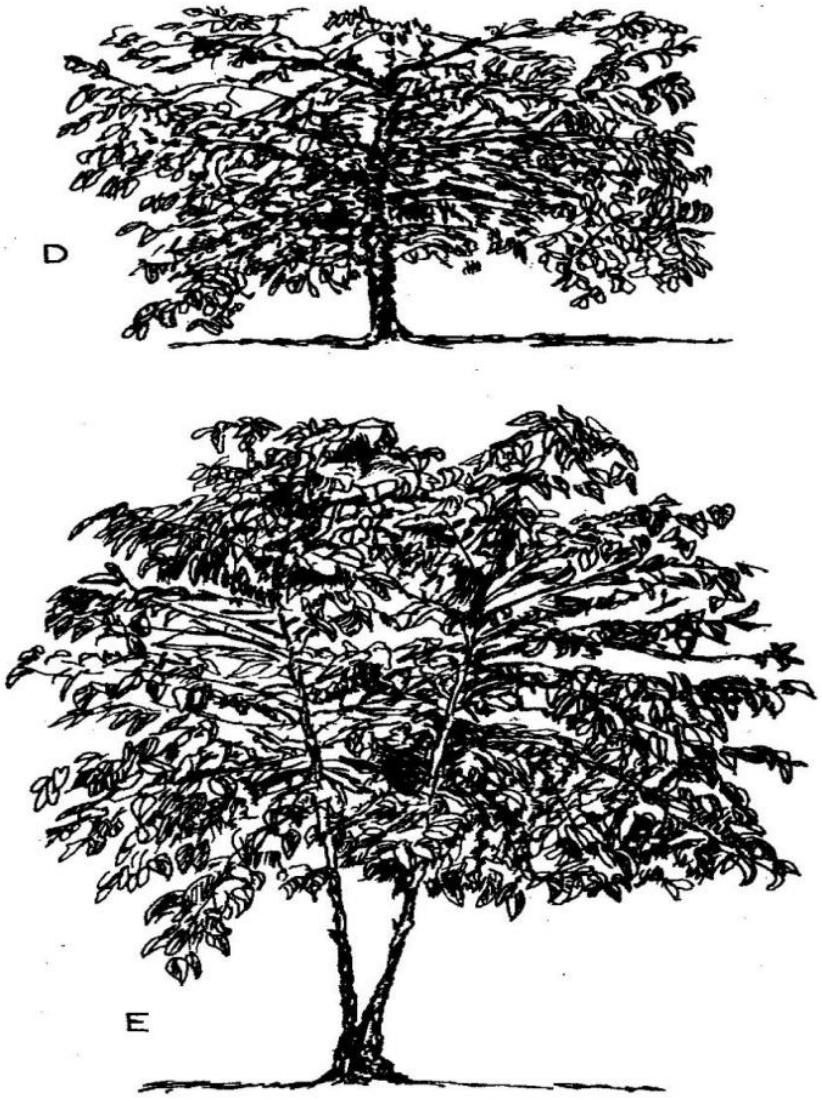
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(b) Name the methods of propagation illustrated in diagrams A_3 and B **(2 marks)**

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22.The diagrams labeled D and E below are illustrations of coffee established using two different formative pruning systems. Study them and answer the questions that follow.



(a) Name the system of pruning illustrated in diagram D above **(1 mark)**

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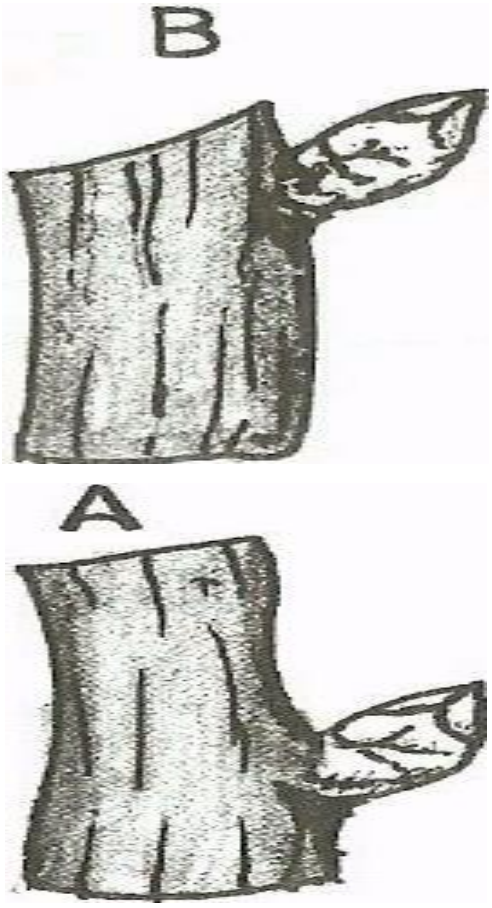
(b) State 2 disadvantages of the pruning system labelled **E** **(2 marks)**

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23 (a) The diagrams below represent two ways in which a crop was pruned. Study them carefully and answer the questions that follow.



(i) Which diagram represents the correct way of pruning? **(1 mark)**

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(ii) Give a reason for your answer in (i) above. **(1 mark)**

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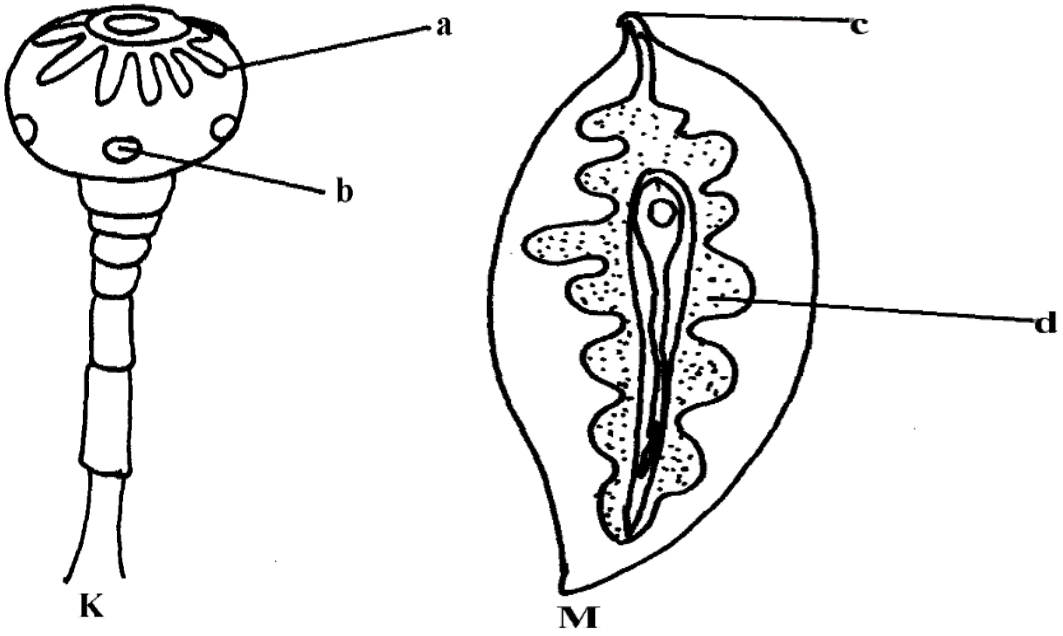
(b) State two ways in which pruning assists in controlling crop diseases. **(1 mark)**

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24.

Below are diagrams showing different types of internal parasites. Study them carefully and answer the questions that follow:-



a) Identify the parasites **K & M** **(1mark)**

b) Name the organs where each parasites is found **(2marks)**

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c) Give the intermediate host of parasite **M** **(1mark)**

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SECTION C (40 MARKS

25. a) State and explain five factors which may influence the spacing of crops **(10 marks)**

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b) State and explain five advantages of crop **rotation** **(10marks)**

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26 (a) Describe **ten** signs of ill –health in livestock **(10 marks)**

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b). Explain measures used to control livestock diseases. **(10 marks)**

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- ✓ SCHEMES OF WORK
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- ✓ TERMLY EXAMS
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- ✓ KCSE PREMOCKS
- ✓ TOP SCHOOLS PREMOCKS
- ✓ JOINT PREMOCKS
- ✓ KCSE MOCKS
- ✓ TOP SCHOOLS MOCKS
- ✓ JOINT MOCKS
- ✓ KCSE POSTMOCKS
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