

NAME:.....

INDEX NO:.....

CANDIDATE SIGN:.....

DATE:.....

GATUNDU SOUTH TRIAL

EXAMINATION

JULY 2018

AGRICULTURE PAPER 1

443/1

INSTRUCTIONS TO CANDIDATES

- ❖ THIS PAPER CONSISTS OF THREE SECTIONS A,B AND C
- ❖ ANSWER ALL QUESTIONS IN SECTION A AND B
- ❖ ANSWER ONLY TWO QUESTIONS IN SECTION C

FOR OFFICIAL USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE SCORE
A	1-19	30	
B	20-22	20	
C		20	
		20	

TOTAL MARKS

SECTION A (30MKS)

Answer all questions in the spaces provided.

1. State four factors influencing the choice of the farming methods a farmer may use. (2mks)
 - a)
 - b)
 - c)
 - d)

2. State four advantages of drip irrigation. (2mks)
 - a)
 - b)
 - c)
 - d)

3. Outline four farming practices that destroy soil structure. (2mks)
 - a)
 - b)
 - c)
 - d)

4. State four reasons why a farmer may fail to get profit from a farming enterprise. (2mks)
 - a)
 - b)
 - c)
 - d)

5. Give four advantages of preparing land early for planting sorghum. (2mks)

- a)
- b)
- c)
- d)

6. Differentiate between hybrid and composite as used in crop production. (2mks)

.....
.....

7. What is meant by term domestication as used in Agricultural production? (1mk)

.....
.....

8. Highlight two ways of hardening off tomato seedlings before transplanting. (1mk)

a)

b)

9. Give a reason as to why a farmer is supposed to observe the following precautions in the farm. (2mks)

a) Always store farm yard manure under a shade.

.....

b) Wear gloves while applying nitrogenous fertilizers.

.....

10. Give two reasons for conserving forage. (1mk)

a)

b)

11. Outline four ways in which grass help to conserve soil. (2mks)

a)

b)

c)

d)

12. Give two signs of blight in a field of tomatoes. (1mk)

a)

b)

13. State two factors that adapt weeds excellently to their environment. (1mk)

a)

b)

14. Give two reasons for inoculating legume seeds before planting. (1mk)

a)

b)

15. Give two reasons why most of Kenyan farmers practice small scale farming. (1mk)

a)

b)

16. Define the law of profit maximization. (1mk)

.....

17. Distinguish between stocking rate and carrying capacity as used in forage production. (2mks)

.....
.....

18. Outline four ways a farmer can use to improve labour productivity in the farm. (2mks)

a)

b)

c)

d)

19. State 4 ways of modifying soil pH. (2mks)

a)

b)

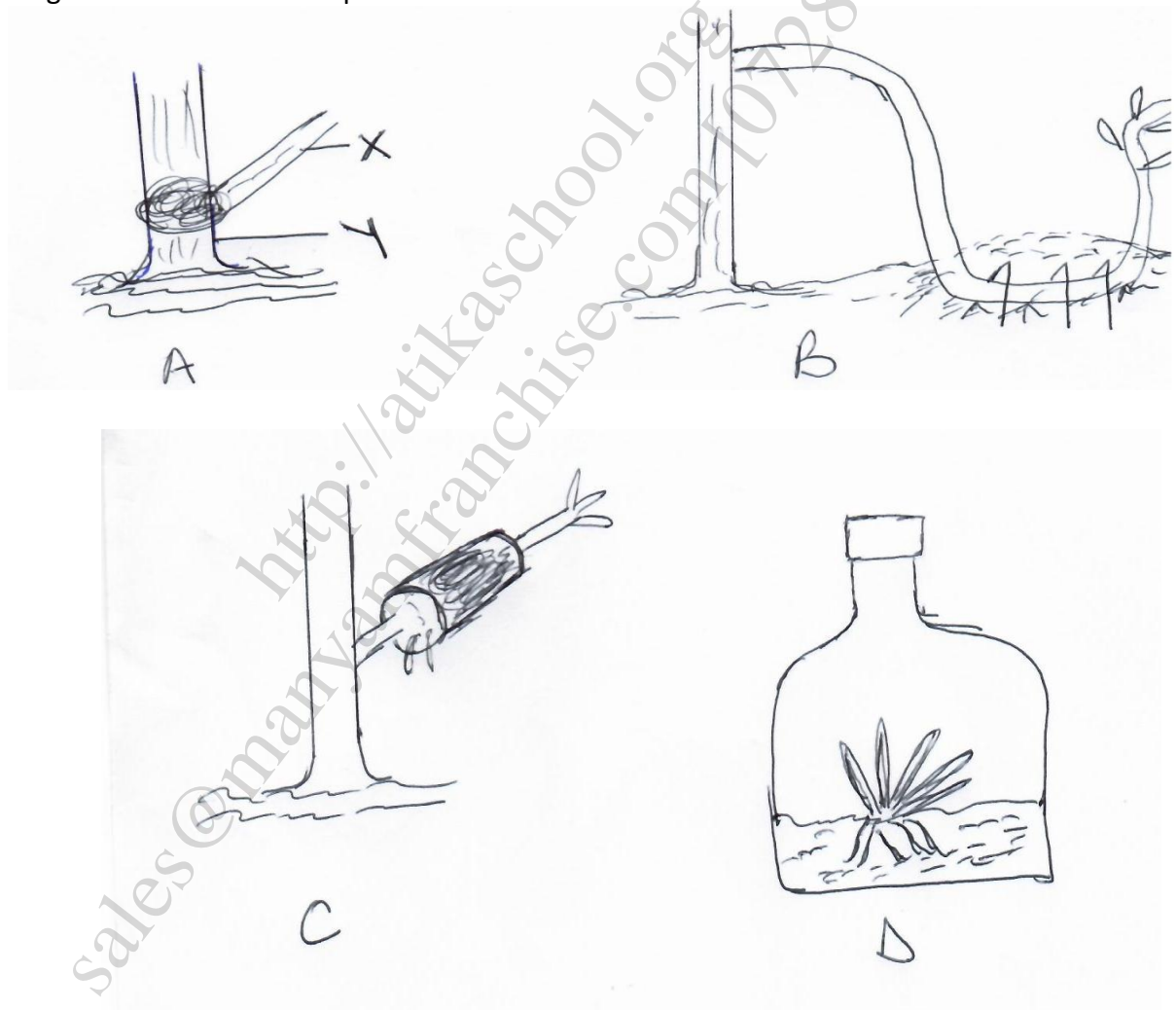
c)

d)

SECTION B (20MKS)

Answer all questions in the spaces provided.

20. The diagram below illustrates different methods used in crop propagation. Study the diagrams and answer the questions that follow.



a) Identify the methods of crop propagation illustrated by A,B and D. (3mks)

A:.....

B:.....

D:.....

b) Identify the parts labelled X and Y in diagram A. (2mks)

X:.....

Y:.....

c) Under what conditions is method C used by farmers. (1mk)

.....

d) Give two advantages of using the method illustrated in diagram D after bananas are planted in the main field. (2mks)

a)

b)

21. The diagram below illustrates some common weed. Study it carefully and answer the questions that follow.



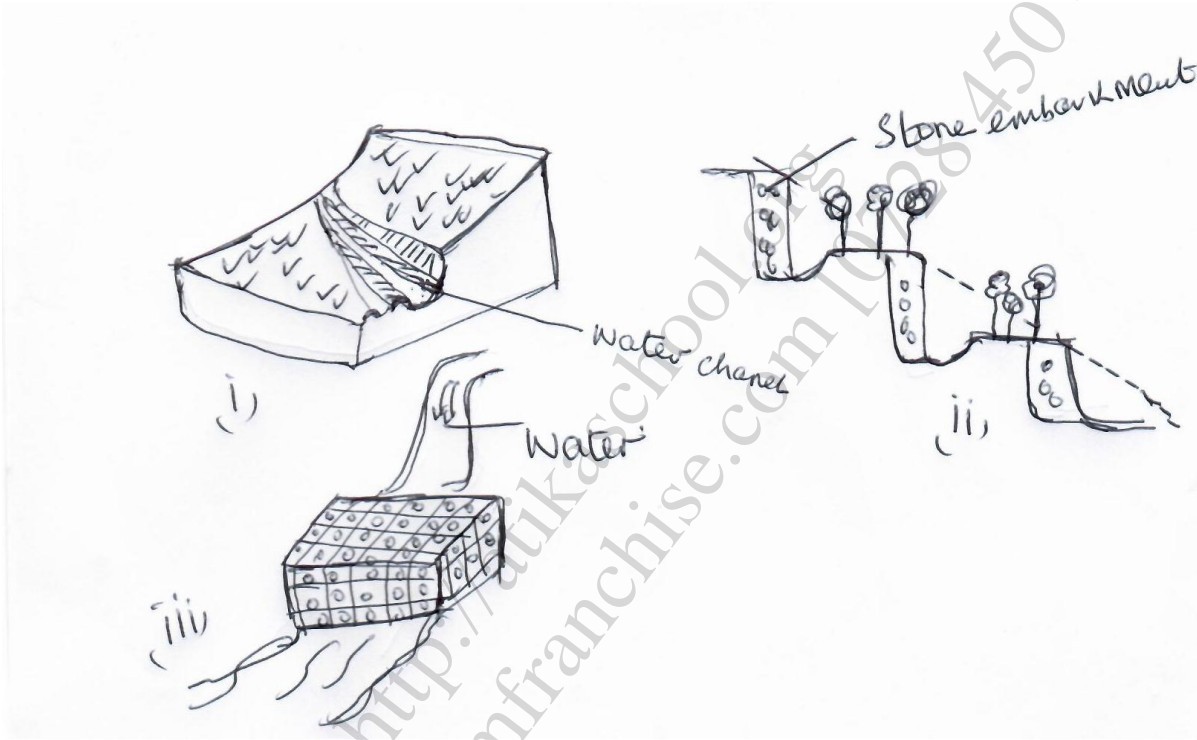
a) Identify the weeds labelled A and B. (2mks)

A:

B:.....

- b) State one factor that makes weed B difficult to control in a pasture field. (1mk)

- c) State one economic importance of each of the weeds labelled A and B. (2mks)
 A:.....
 B:.....
22. The diagrams below illustrates different methods used in soil and water conservation. Study the methods and answer the questions that follow.



- a) Identify the methods illustrated by (i) (ii) and (iii). (3mks)
 (i).....
 (ii)
 (iii)
- b) State two methods by which the structure in (iii) controls soil erosion. (2mks)
 (i)
 (ii)

- c) Name two materials used to make the structure in (iii) above. (2mks)
- (i)
- (ii)

SECTION C (40MKS)

Answer any two questions from this section.

23. (a) Describe production of Napier grass under the following sub-headings.
- (i) Land preparation (2mks)
 - (ii) Planting and planting materials (2mks)
 - (iii) Fertilizer application (2mks)
 - (iv) Defoliation (2mks)
 - (v) Weed control (2mks)
- (b) Explain six factors that can influence a well-designed crop rotation programme. (6mks)
- © Give four signs that would enable you to identify a compost manure that is ready for use. (4mks)

24. (a) Describe procedure of preparing silage. (5mks)
- (b) A farmer carried out the following transactions on his farm;
- Crop – Maize
Yield – 50 bags/ha
Price/unit – Ksh1000
Sale of maize – 50 bags

Variable costs per hectare	Ksh
Land preparation	5000
Purchase of seeds	3000
Purchase of DAP	3600
Purchase of CAN	2000
Purchase of jembes	2500
Purchase of slashers	1000
Other expenses	500

- Using the information provided, calculate the Gross margin. (5mks)
- © Describe the management practices carries out in a cabbage nursery. (10mks)

25. (a) Describe process of water treatment in a water treatment plant. (10mks)
(b) Describe the role of Kenya meat commission. (4mks)
© Explain six cultural methods of controlling crop diseases. (6mks)

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