

Name School Adm No.....
Class Candidate's Signature

443
AGRICULTURE
FORM TWO
TIME. 2 HOUR

GIDEONS ELITE BOYS CENTRE OF EXCELLENCE DECEMBER SELF-ASSESSMENT EXAMINATIONS FORM TWO

Kenya Certificate Of Secondary Education. (K.C.S.E)
443
AGRICULTURE
TIME 2 HOUR

INSTRUCTIONS TO CANDIDATES

- a. Write your name, School, Adm. Number, Class and TEACHER in the space provided.
- b. Sign and write the date of examination in the space provided above
- c. This paper consist of three sections A, B and C (100mks)
- d. Answer all the questions in sections A and B
- e. Answer all questions from 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 question are missing

For Examiners' Use Only.

Section	Questions	Maximum score	Candidates score
A	1-30		
B	31-36		
C	37		
	38		
Total Score	100		

This paper has 12 printed pages.

SECTION A-(30 Marks) ANSWER ALL QUESTIONS IN THIS SECTION

1. List **two** activities that make agriculture to be regarded as an art. (1 mk)

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.....

2. Give the meaning of the following terms as used in agriculture. (1 mk)

i) Crop pathology.

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ii) Agricultural engineering.

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3. List **two** characteristics of extensive farming system. (1mk)

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4. List **two** benefits of practicing mixed farming. (1 mk)

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5. State **two** limitations of practicing shifting cultivation. (1mk)

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6. State **two** factors that determine the number of times secondary cultivation is done. (1mk)

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.....

7. Give **one** reason why each of the following tertiary operations is carried out.

a) Rolling. (1/2 mk)

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b) Levelling. (1/2mk)

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8. Give **two** reasons for carrying out minimum tilage. (1mk)

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9. Give **two** reasons for treating water before use. (1mk)

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10. Give **two** reasons why farmers choose seeds over vegetative materials during planting. (1mks)

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11. Define the following terms as used in crop production.

a) Intercropping. (1/2 mk)

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.....

b) Mixed cropping. (1/2 mk)

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.....

12. Give the name of the young one of the following livestock animals (1Mk)

Rabbit-

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.....

Goat

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.....

13. State **two** importance of keeping livestock healthy. (1 Mk)

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14. State **two** conditions that necessitate the handling of farm animals (1 Mks)

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15. Give **two** characteristics of an effective acaricide? (1 Mks)

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16. Describe **two** uses of water in the animal's body (1 Mks)

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17. Name **two** complementary tools that are used together in livestock production. (1 Mk)

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.....

18. State **two** reasons of maintaining farm tools (1 Mk)

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.....

19. State **two** conditions when opportunity cost is zero in dairy production. (1 Mk)
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.....

20. State the importance of the following in manure preparation using the pit method. (1 Mk)
a) Ash
.....
.....

b) Soil
.....
.....

21 Name **two** aspects of light that affect agricultural production (1 Mk)
.....
.....

22. State **two** advantages of overhead irrigation (1 Mk)
.....
.....

23. Name **two** types of soil structures. (1 Mk)
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.....

24. Name the intermediate host of the following parasites
i) Tapeworm
.....
.....

ii) Liver-fluke (1 Mk)
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.....

25. State **two** characteristics of nitrogenous fertilizers. (1 Mk)
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26. State **two** methods of breaking seed dormancy (1 Mk)
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27. State **two** characteristics of a good grain store (1mk)

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28. Outline **two** soil constituents (1mk)

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.....

29. State **two** characteristics of plants used as green manure (1mk)

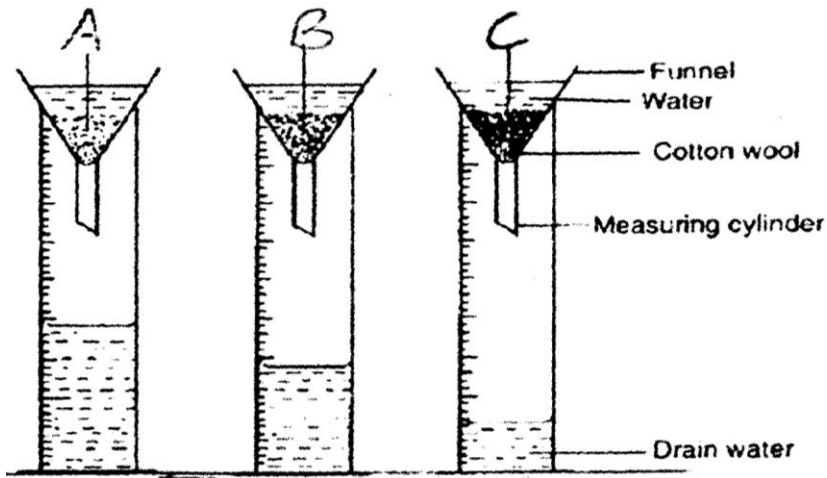
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30. Outline **four** reasons of practicing minimum tillage (1mk)

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SECTION B- (30 Marks) ANSWER ALL QUESTIONS IN THIS SECTION.

31. The diagrams below show an experiment to investigate a soil property. Study the diagram carefully and answer the questions that follow.



i) State the aim of the experiment. (1 mks)

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ii) If the volume of water illustrated in the measuring cylinders were observed after one hour, identify the soil samples labelled A and B. (1 Mks)

A.....

B.....

iii) State **three** ways in which the soil structure of the sample labelled C can be improved. (3 Mks)

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32. Below are two diagrams of Irish potato tubers after being subjected to some conditions before planting.



D1: Before subjecting to the conditions.



D2: After subjecting to the conditions

- (i) Which process of potato treatment is illustrated above? (1 mark)
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.....
- (ii) State **two** conditions necessary for the above process. (2 marks)
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.....
- (iii) Give **two** reasons for carrying out the above practice. (2 marks)
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33. A farmer is advised to top-dress a crop with a fertilizer NPK 20:10:10. (3 Mks)

a) What do the values 20:,10:10: stand for?

20:

10:

10:

b) Classify the fertilizer according to the nutrients present. (1 Mk)

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c) If 400kgs of the fertilizer was used to top-dress, showing your working, calculate the amount of nitrogen applied. (1 Mks)

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34. A farmer wanted to prepare a 200kg f calf rearing ration containing 20% DCP. Using the Pearson's Square Method, calculate the amount of Maize containing 10% DCP and Sunflower containing 35% DCP the farmer would need to prepare the ration.(5marks)
(Show your working)

35. Diagram Q and R below illustrated livestock deficiency diseases, study the diagrams and answer the questions that follow. (2Marks)



Q



R

a) Identify the disease in cattle with the symptoms shown in Q (1/2 Marks)

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b) Name the deficient nutrients in;

Q

R

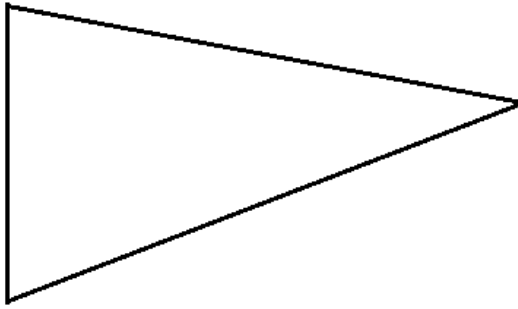
c) List **two** symptoms of the disease illustrated in Q above (2 Marks)

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d) Name one method of controlling the disease illustrated in Q above. (1/2 Marks)

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



i) With a reason identify the type of cattle breed illustrated. (2mks)

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.....

ii) State three other ideal features of the above animal not visible in the illustration above. (3 Mks)

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