443/1

**NAME…………………………………………….……. INDEX NO………..…………………..**

**SIGNATURE……………………………….………………DATE……………………………..**

ASUMBI GIRLS HIGH SCHOOL

 POST -MOCK 1

AUGUST/SEPTEMBER

2022

**AUGUST / SEPTEMBER - 2022**

**AGRICULTURE**

**PAPER 1**

**2 HOURS**

 **INSTRUCTIONS TO CANDIDATES**

1.Write your name and ADM. Number in the spaces provided above.

2. Sign and write the date of examination in the spaces provide above.

3. This paper consist of three sections A, B and C.

4. Answer all the questions in section A and B.

5.Answer any two questions in section C.

6.All answers should be written in the spaces provided.

8. All answers must be written in English.

9.This paper consist of 14 printed pages.

10. Candidates must check to ascertain that all the pages are printed as indicated and that no question is missing.

 **FOR EXAMINER’S USE ONLY**

|  |  |  |  |
| --- | --- | --- | --- |
| SECTION | QUESTIONS | MAXIMUM SCORE | CANDIDATE SCORE |
| A | 1-16 | 30 |  |
| B | 17 -20 | 20 |  |
| C |  | 40 |  |
|  |  |  |  |
| TOTAL SCORE |  | 90 |  |

 **SECTION A 30 MARKS**

**ANSWER ALL THE QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED**

1.State **three** ways in which crop rotation improves soil fertility. (11/2marks)

................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

2.List **four** methods of farming. (2 marks)

............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

3.Give **four** importance of cost as used in agricultural economics. (2 marks)

............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

4.List **four** factors a farmer considers when siting a nursery bed. (2 marks)

........................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

5. State **four** ways in which government policy contributes to agriculture. (2 marks)

............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

6.State **four** disadvantages of concession land tenure. (2 marks)

............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

7.Give **four** reasons why cereal grains should be dried before storage. (2 marks)

............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

8.State **three** importance of cutting back in pyrethrum. (11/2marks)

...............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

9.Outline **four** observable indicators of economic growth of a country. (2 marks)

............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

10.State **four** solutions that can help solve the problem of perishability in horticultural crops. (2 marks)

............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

11.Give **four** disadvantages of using organic manures in crop production. (2 marks)

............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

12.State **four** ways in which chemical kills the weeds in the crop field. (2 narks)

............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

13.State **four** management practices that promote high herbage yields in pasture production. (2 marks)

............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

14.Distinguish between seed dressing and seed inoculation. (2marks)

............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

15.State **four** agriculture support services available to a crop farmer (2 marks)

........................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

16.State **two** precautions to be taken when harvesting cotton. (1 mark)

...................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

 **SECTION B 20 MARKS**

 **ANSWER ALL THE QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED**

17.The diagram illustrated below shows a method of grafting. Study it carefully and answer the questions that follow.



a) Identify the type of grafting illustrated above. (1 mark)

........................................................................................................................................................................................................................................................................................................................

b) Name the parts named G1 and G2. (1 mark)

G1.......................................................................................................................................................

G2.......................................................................................................................................................

c)State **three** advantages of grafting in agroforestry. (3 marks)

...............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

18.The diagram illustrated below shows a DAP fertilizer bag. Study it carefully and answer the questions that follow.



a) What do the figures labelled on the diagram stand for. (1 mark)

...............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

b) With a reason name the class of inorganic fertilizer that DAP belong. (2 marks)

........................................................................................................................................................................................................................................................................................................................

c) Calculate the amount of filler material in 200 kg of DAP with a fertilizer grade of 18:46:0. (2 marks)

..........................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

19.The diagrams illustrated below shows common weeds. Use them to answer the questions that follow.



a) Identify the weeds labelled C and D. (2 marks)

C.........................................................................................................................................................

D........................................................................................................................................................

b) Classify the weed labelled C according to plant morphology. (1 mark)

........................................................................................................................................................................................................................................................................................................................

c) Give **one** reason why it is difficult to control the weed labelled D. (1 mark)

........................................................................................................................................................................................................................................................................................................................

d) Name the appropriate category of herbicide used to the control weed labeled C.(1 mark)

........................................................................................................................................................................................................................................................................................................................

20.The diagram illustrated below shows an activity carried out in agroforestry. Study it carefully and answer the questions that follow.



a) Identify the activity illustrated above. (1 mark)

........................................................................................................................................................................................................................................................................................................................

b) Sate **two** reasons for carrying out the activity identified above. (2 marks)

...................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

c) Name **two** tools that may be used to carry out the activity illustrated above. (2 marks)

....................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

**SECTION C 40 MARKS**

**ANSWER ONLY TWO QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED AFTER THE QUESTIONS**

21. a) The following information was found in Mr. Kamau’s farm record for the year ending December 2014. Study it carefully and answer the questions that follow.

Bought goats 4,000

Bought poultry 15,000

Bought dairy meal 25,000

Bought pasture seeds 50,000

Transportation of farm produce 15,000

Paid casual workers 12,000

Hired an ox-plough 10,000

Opening valuation 150,000

Sale of mohair 75,000

Sale of rabbits 36,000

Sold dairy cow 70,000

Received cash from the sale of wheat 100,000

Sold cabbages 20,000

Received money from the sale of eggs 15,000

Closing valuation 200,000

i)Prepare a profit and loss account for Mr. kamau’s farm. (7 marks)

ii)Did he make a profit or loss. (1 mark)

 iii) Calculate the percentage profit or loss that Mr. Kamau made. (2 marks)

b) Outline **five** functions of Kenya National Federation of producers in Kenya. (5 marks)

c)Explain **five** effects of solifluction. (5 marks)

22.a) Explain **eight** factors that influence the type of irrigation to be used in a farm. (8 marks)

b) Outline **five** importance of draining agricultural land. (5 marks)

c)Explain **seven** safety precautions observed when spraying herbicides. (7 marks)

23a) Explain **ten** functions ofmarketing. (10 marks)

b) Explain **five** factors that should be considered when deciding the depth of planting seeds. (5 marks)

c) Outline **five** characteristics of a green manure crop. (5 marks)

................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................