**NAME: …………………………………… DATE……………………….**

**SCHOOL: …………………………………. SIGN………………………..**

**443**

**AGRICULTURE**

**SEPTEMBER 2021**

**TIME: 2 HOURS**

**CASPA AMUKURA PARISH EXAM 2021**

**AGRICULTURE FORM THREE**

**INSRUCTIONS TO CANDIDATES**

* Write your name and name of your school in the above space provided.
* Sign and write the date of examination in the space provided.
* This paper consist of three Sections A, B and C.
* Answer all questions in section A and B.
* Answer any two questions in section C.
* Answers should be written in the spaces provided.
* Candidates should check the question paper to ascertain that all pages are printed as indicated and that no page is missing.

**FOR EXAMINER’S USE ONLY**

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** | **QUESTION** | **MAXIMUM SCORE** | **CANDIDATE’S SCORE** |
| A | 1-15 | 30 |  |
| B | 16-19 | 20 |  |
| C |  | 20 |  |
|  |  | 20 |  |
|  |  | 20 |  |
|  | TOTAL SCORE | **90** |  |

**SECTION A: 30 MARKS**

**ANSWER *ALL* QUESTIONS IN THIS SECTION.**

1. State **four** characteristics of extensive farming systems. ( 2 marks)

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1. Give **four** reasons why burning of land as a method of land preparation is discouraged. ( 2 marks)

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1. State **four** physical factors in soil formation. ( 2 marks)

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1. Give the meaning of the following terms as used in crop production.
2. Crop rotation ( 3 marks)

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1. Pruning

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1. Rogueing

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1. State **four** factors that determine the depth of planting. (2 marks)

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1. Name **one** crop that is propagated by each of the following.
2. Stem tuber ( ½ mark)

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1. Split ( ½ mark)

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1. Slip ( ½ mark)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Bulbil ( ½ mark)

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1. Name **four** light breeds of chicken in poultry rearing. ( 2 marks)

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1. State **four** harmful affects ticks on livestock. (2 marks)

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1. Differentiate between cropping and harvesting in fish farming. ( 2 marks)

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1. List **three** maintenance practices carried out on a fish pond. (1 ½ marks)

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1. State **three** functions of vitamins in an animal’s body. (1 ½ marks)

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1. Give **four** reasons why farmers invest in Agriculture. ( 2 marks)

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1. Distinguish between the following pair of terms as used in crop production.
2. Seed dressing and seed inoculation. ( 1 mark)

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1. Under sowing and over sowing. ( 1 mark)

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1. State **four** factors considered while sitting an apiary. ( 2 marks)

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1. Give **two** reasons for each of the following.
2. Nitrogenous fertilisers should not be used during planting. ( 1 mark)

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1. Too much nitrogenous fertilisers should not be applied when growing tomatoes. (1 mark)

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**SECTION B: ( 20 MARKS)**

**ANSWER** ALL **QUESTIONS FROM THIS SECTION.**

1. The diagram below shows a farm record. Use it to answer questions that follow.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Daily feeding record for the month of …………………………………..  Enterprise ……………………………………………………………….  Type of feed…………………………………………………………….. | | | | | |
| Date | No of animals | Amount received (kg) | Amount used | Balance in stock | Remarks |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

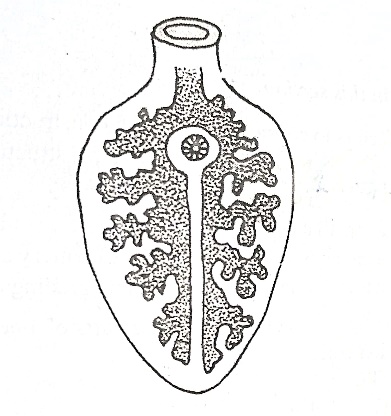
1. Identify the type of farm record above. ( 1 mark)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. On 16th June 2021, Kocho farm received 120kgs of Layers mash. 40kg of the feed was given to 20 layers on the same day. Use this information to fill in the above table. ( 3 marks)
2. Name any other type of farm records. ( 1 mark)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A poultry farmer has maize containing 8% DCP and Soya beans containing 43% DCP. If the farmer wants to make 100kg of a feed, using the Pearson’s square method, calculate the proportions in which the two ingredients would have to be mixed to make a feedstuff containing 15% DCP. ( show your working) ( 5 marks)
2. Below is an illustration of an internal parasite in livestock. Study it and use it to answer questions that follow.



1. Identify the parasite. ( 1 mark)

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1. Name **one** intermediate host and one final host for the parasite above (2 marks)

Intermediate host

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

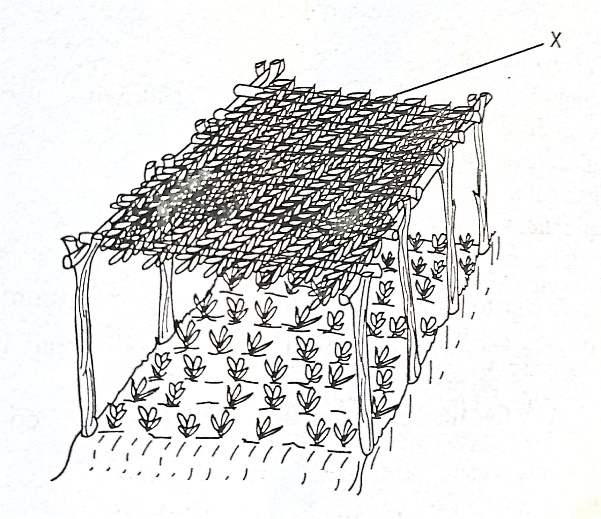
Final host

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Outline **two** control measures for the above parasite. (2 mark)

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1. The following is an illustration of a structure used in crop propagation. Study it and use it to answer questions that follow.



1. Identify the structure. ( 1 mark)

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1. What is the function of part labelled X on the above structure. ( 1 mark)

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1. Why is it recommended to remove part labelled X one week before transplanting. ( 1 mark)

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1. State **two** advantages of using the structure illustrated above. ( 2 marks)

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**SECTION C: 40 MARKS.**

**ANSWER ANY TWO QUESTIONS FROM THIS SECTION.**

2. Outline precautions that should be taken into account when using workshop tools. ( 6 marks)
3. Discuss **six** reasons for carrying out minimum tillage. ( 6 marks)
4. Explain **four** ways in which soil losses fertility. ( 8 marks)
6. Describe **seven** field management practices in tomato production. ( 7 marks)
7. Outline **five** factors that determine water requirements in an animal’s body. ( 5 marks)
8. Describe the transplanting of tree seedlings. ( 8 marks)
10. Outline **six** reasons why bees swarm beehive. ( 6 marks)
11. Explain **six** signs that will indicate a sow is on heat. ( 6 marks)
12. Discuss **eight** factors considered when selecting a breeding stock. ( 8 marks)