**NAME:………………………………………….. INDEX NO…………………………**
**SCHOOL:……………………………………… CANDIDATE’S SIGN ……………..**

**DATE ………………………………**

443/1

**AGRICULTURE**

**Paper 1**

2021
**Time: 2 Hours**

**ELDORET DIOCESE EXAM 2021**

***Kenya Certificate of Secondary Education (K.C.S.E)***

443/1

**AGRICULTURE**

**Paper 1**

2021
**Time: 2 Hours**
**INSTRUCTIONS TO CANDIDATES**

1. Write your name and index number in the spaces provided above

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

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

4. Answer all the questions in section A and B and any **two** questions from section C

5. Answers should be written in the spaces provided.

**For Examiner’s Use Only**

|  |  |  |  |
| --- | --- | --- | --- |
| **Section** | **Question** | **Maximum Score** | **Candidate’s Score** |
| A | 1 – 16 | 30 |  |
| B | 17-20 | 20 |  |
| C | 21-23 | 20 |  |
|  |  | 20 |  |
|  | **Total Score** | **90** |  |

**SECTION A (30 MARKS)**

***(Answer all the questions from this section*)**

1. State **two** causes of hard pan in the farm. (1 mark)

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1. State **four** information contained in a delivery note. (2 marks)

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1. Give **four** advantages of using certified seeds in crop production. (2 marks)

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1. Give **four** disadvantages of minimum tillage. (2 marks)

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1. State **four** conditions under which shifting cultivation is practiced. (2 marks)

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1. Give **four** importance of sub-soiling. (2 marks)

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1. State **three** conditions under which opportunity cost is zero. (11/2 marks)

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1. State **four** methods of harvesting water on the farm. (2 marks)

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1. Name **three** basis on which the classification of fertilizers is done. (11/2 narks)

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1. Outline **four** advantages of land reforms in Kenya. (2 marks)

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1. State **two** causes of forking in carrots. (1 mark)

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1. (a). State **three** types of capital. (11/2 marks)

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 (b). Apart from capital, state other **three** factors of production. (11/2 marks)

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1. State **four** reasons for conserving forage. (2 marks)

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1. State **four** factors that affect the efficiency of herbicides. (2 marks)

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1. Give **four** scientific aspects of agriculture. (2 marks)

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1. Name **four** methods of harvesting trees in agroforestry. (2 marks)

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**SECTION B (20 MARKS)**

***(Answer all the questions from this section*)**

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



a) Name the method of irrigation illustrated above. (1 mark)

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b) State **two** advantages of this method of irrigation. (2 marks)

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c) Give **four** factors which determine the choice of type of irrigation to use. (2 marks)

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1. The diagram below shows a common weed in the farm. Study it and answer the questions that follow.



1. Identify the weed shown above. (1 mark)

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1. State one harmful effect of the weed to cereals. (1 marks)

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1. Give **three** ways that can be used to control the weed. (3 marks)

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1. The diagram below shows irish tubers after being subjected to some conditions before transplanting. Study them carefully and answer the questions that follow.



(a). Name the process of potato treatment illustrated above. (1 mark)

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 (b). State **two** conditions necessary for the above process. (2 marks)

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 (c). Give **two** reasons for carrying out the above practice. (2 marks)

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1. Students were to apply a compound fertilizer 5:20:10 on their agriculture plot measuring 3 m by 4 m, at the rate of 200kg per hectare.

(a). Calculate the amount of fertilizer they would require for each plot. (Show your working). (2 marks)

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(b). What do figures 20 and 10 in the fertilizer stand for? (2 marks)

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 (c) Give two methods of soil sampling. (1 mark)

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**SECTION C (40 MARKS)**

**(Answer any two questions from this section)**

1. (a) Describe ways in which cultural measures control crop diseases (8mks)

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(b) Describe seven nursery practices carried out while seedlings are still growing.

(7marks)

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 (c) State the qualities of a good farm manager. (5 marks)

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1. a) Describe the field production of bulb onions under the following sub headings.
2. Ecological requirements. (4 marks)

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1. Planting. (3 marks)

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1. Harvesting. (3 marks)

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(b). Discuss six reasons for pruning in coffee. (6 marks)

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 (c). Highlight four characteristics of plants used as green manure. (4 marks)

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1. (a). Briefly explain **six** factors influencing mass wasting. (6 marks)

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(b). Describe the procedure of harvesting sugar cane. (6 marks)

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(c). Describe four ways in which soil depth influences crop production. (8 marks)

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