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FORM 4 ENTRANCE EXAMS 2023

**NAME…………………………………………..ADM………….CLASS………SIGN……….**

**312/2**

**GEOGRAPHY**

**Paper 2**

**February, 2023**

**Time 2 hours 45 min.**

**Kenya Certificate of Secondary Education**

**312/2**

**Paper 2**

**GEOGRAPHY**

**INSTRUCTIONS TO STUDENTS**

* *This paper has* ***two*** *sections* ***A*** *and* ***B***
* *Answer* ***ALL*** *the questions in section* ***A****. In section* ***B*** *answer questions* ***6*** *and any other* ***TWO*** *questions.*

**FOR EXAMINERS’ USE**

|  |  |  |
| --- | --- | --- |
| **SECTION** | **QUESTION** | **SCORE** |
| **A** | **1-5** |  |
| **B** | **6** |  |
| **7** |  |
| **8** |  |
| **9** |  |
| **10** |  |
| **TOTAL** | |  |

**SECTION A: 25 MARKS**

*Answer* ***ALL*** *questions in this section*

1. (a) Name ***three*** sub-branches of Human and Economic Geography. (3 marks)

(b) Explain the relationship between Geography and Mathematics. (2 marks)

2. (a) What is mining? (2 marks)

(b) State ***three*** ways in which minerals occur. (3 marks)

3. (a) Differentiate between forests and forestry. (2 marks)

(b) Give ***three*** importance of agro-forestry. (3 marks)

4. State ***five*** characteristics of shifting cultivation. (5 marks)

5. Draw an outline map of Kenya. On it mark and name Trona and Fluorspar mining areas. (5 marks)

**SECTION B**

*Answer question* ***6*** *and any other* ***TWO*** *questions from this section.*

6. (a) The table below shows horticultural crop produced in Kenya in the year 2010.

|  |  |
| --- | --- |
| **Crop** | **Quantity in tonnes** |
| Flowers | 52,500 |
| Oranges | 32,600 |
| Tomatoes | 30,300 |
| Carrots | 25,400 |

(i) Draw a divided rectangle 15cm long to represent horticultural crop production in Kenya in the year 2010 using the data above. (8 marks)

(ii) Calculate the range of the above data. (2 marks)

(iii) What is the percentage of the horticultural crop with the highest tonnage? (2 marks)

(b) State t***wo*** advantages of using divided rectangles to represent statistical data. (2 marks)

(c) (i) What is plantation farming? (2 marks)

(ii) Name ***two*** crops grown under plantation farming in Kenya. (2 marks)

(iii) Identify ***four*** characteristics of plantation farming in Kenya. (4 marks)

(d) State ***three*** problems facing plantation farming in tropical regions. (3 marks)

7. (a) Explain how the following factors influence the exploitation of minerals.

* Transport (4 marks)
* Level of technology (4 marks)
* Mode of occurrence of minerals. (4 marks)

(b) Describe the processing of Trona in Lake Magadi. (6 marks)

(c) (i) Name ***two*** methods used in underground mining. (2 marks)

(ii) Describe how minerals are obtained through open cast mining. (5 marks)

8. (a) (i) Differentiate between afforestation and re-afforestation. (2 marks)

(ii) Explain how the following factors influence forest distribution in Kenya:

* Altitude (2 marks)
* Precipitation. (2 marks)

(b) (i) Name ***three*** equatorial rain forest reserves found along the Kenya coastal belt. (3 marks)

(ii) State ***four*** ways in which clearing forests affect the natural environment. (4 marks)

(c) Explain ***four*** measures taken by the government of Kenya to control encroachment on forested areas. (8 marks)

(d) (i) Name ***two*** areas under forests in Canada. (2 marks)

(ii) Compare forestry in Kenya and Canada under the following sub- headings:

* Period of harvesting. (2 marks)
* Tree harvesting (2 marks)

9. (a) (i) Name ***three*** counties where maize is grown on commercial scale in Kenya. (2 marks)

(ii) State the physical conditions necessary for maize cultivation in Kenya.

(5 marks)

(b) (i) Describe the stages involved in maize production in Kenya from land preparation to harvesting. (6 marks)

(ii) Explain ***three*** problems facing maize farming in Kenya. (6 marks)

(c) (i) What is mixed farming? (2 marks)

(ii) State ***four*** characteristics of mixed farming. (4 marks)

10. (a) (i) Distinguish between horticulture and market gardening. (2 marks)

(ii) Give the characteristics of horticultural farming in Kenya. (4 marks)

(b) (i) State ***four*** factors which favour horticultural farming in Kenya. (4 marks)

(ii) Explain ***three*** measures taken by the government of Kenya to promote horticultural farming. (6 marks)

(c) What are the similarities between horticultural farming in Kenya and Netherlands? (4 marks)

(d) A form three geography class intend to carry out a field study in a horticultural farm near their school.

(i) State ***three*** methods of data collection they are likely to use. (3 marks)

(ii) Give ***two*** follow-up they are likely to undertake after the study. (2 marks)

(ii) Give ***two*** methods they used to present their data. (2 marks)