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 FORM 4 ENTRANCE EXAMS 2023

***Kenya Certificate of Secondary Education (KCSE)***

**312/1**

**Paper 1**

**GEOGRAPHY**

***INSTRUCTIONS TO CANDIDATES***

* This paper has two sections, **A** and **B.**
* Answer question **6** and any other **TWO** questions.

***FOR EXAMINERS USE ONLY***

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** | **QUESTION** | **MARKS** | **SCORE** |
| **A** | 1-5 | 25 |  |
| **B** | 6 | 25 |  |
| 7 | 25 |  |
| 8 | 25 |  |
| 9 | 25 |  |
| 10 | 25 |  |
| **TOTAL MARKS** | **100** |  |
| **TOTAL SCORE** |

**SECTION A:**

*Answer all the questions in this section*

1. The diagram below shows the internal structure of the earth.



1. Name the parts labelled **P**, **Q** and **R**. **(3marks)**
2. State the characteristics of the inner core. **(3marks)**
3. (a) Give **two** local winds that are found in Kenya. (**3 marks)**

(b) State **three** conditions that are necessary for formation of dew. **(3 marks)**

1. Explain how the following factors influence climate.
* Oceans currents **(2marks)**
* Forests **(2marks)**
1. (a) Define a lake **(2marks)**

(b) State **three** reasons why some rift valley lakes are fresh water. **(2marks)**

1. (a) Give **two** main components of soils **(2marks)**

(b) List **three** factors that influence soil erosion **(3marks)**

**SECTION B**

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

1. Study the map of Kijabe ***1:50,000*** *(****sheet 134/3****)* provided and answer the following questions.
2. (i) Identify the type of map provided **(1 mark)**

(ii) Give the longitudinal extent of the area covered by the map. **(2 marks)**

(iii) Convert the scale of this map into statement scale. **(2 marks)**

1. Draw a rectangle **10cm** by **20cm** to represent part of the area between the northings **90** and **00** and easting **25** and **30** on it mark and name: **(6 marks)**
2. Kijabe
3. Road A 104
4. Power line
5. Provincial boundary
6. (i) Identify **four** types of natural vegetation in the area covered by the map. **(4 marks)**

(ii) Describe the drainage of the area covered by the map **(5 marks)**

1. Identify **five** economic activities and their evidences in the areas covered by the map. **(5 marks)**
2. (a) (i) Distinguish between minerals and rocks. **(2 marks)**

(ii) Describe the following characteristics of minerals:

* Colour. **(2 marks)**
* Tenacity. **(2 marks)**
* Hardness. **(2 marks)**

 (b)(i) What are sedimentary rocks? **(2 marks)**

(ii) State **three** characteristics of sedimentary rocks. **(3 marks)**

(iii) Explain **two** reasons why sedimentary rocks are widespread in the coastal plain of Kenya. **(4 marks)**

(c) Describe how the following sedimentary rocks are formed.

* Mechanically formed. **(4 marks)**
* Organically formed. **(4 marks)**
1. (a)(i) Name **two** types of earth movements. **(2 marks)**

 (ii) State **three** causes of earth movement. **(2 marks)**

 (iii) Describe the plate tectonics theory. **(5 marks)**

(b) (i) Define faulting. **(2 marks)**

 (ii) State **three** factors that may influence faulting processes. **(3 marks)**

 (iii) Name **four** types of faults. **(4 marks)**

(d) With the aid of well-labelled diagrams, describe the formation of rift Valley by compressional forces. **(7 marks)**

1. (a)(i) Name **two** types of hot desert landscapes. **(2 marks)**

 (ii) State **two** reasons why wind erosion is very effective in hot deserts. **(2 marks)**

(b)(i) A part from Yadangs, name **three** features that result from wind action in deserts. **(3 marks)**

 (ii) Using well-labelled diagrams, describe how Yadangs are formed. **(7 marks)**

1. Explain **three** ways in which winds transport in desert areas. **(6 marks)**
2. State the significance of desert features to human environment. **(5 marks)**
3. (a)(i) What is glacier? **(2 marks)**

 (ii) Describe how glacier is formed. **(4 marks)**

 (b) Describe **two** processes of ice erosion on a glaciated highland. **(6 marks)**

 (c)(i) Apart from Crag and Tail, name **two** other features formed by ice erosion in lowlands. **(2 marks)**

 (ii) Describe how a crag and tail is formed**. (5 marks)**

 (d) Explain **three** positive effects of glaciation in the lowland areas. **(6 marks)**