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

**SCHOOL………………………………………………..CANDIDATES SIGN…………....................….**

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

**312/1**

**GEOGRAPHY**

**PAPER 1**

**TIME: 23/4 HOURS**

**AUGUST-2022**

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**CEKENAS END OF TERM TWO EXAM-2022**

**FORM FOUR EXAM**

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

Geography paper 1

312/1

**INSTRUCTIONS TO CANDIDATES**

1. Write your name and index number in the spaces provided above
2. Sign and write date of examination in the space provided.
3. This paper consists of **TWO** sections A and B
4. Answer **ALL** questions in Section A. In section B answer **QUESTION 6** and any other **TWO.**
5. All answers **MUST** be written in the spaces provided at the end of question 10.
6. Answer all questions in English.

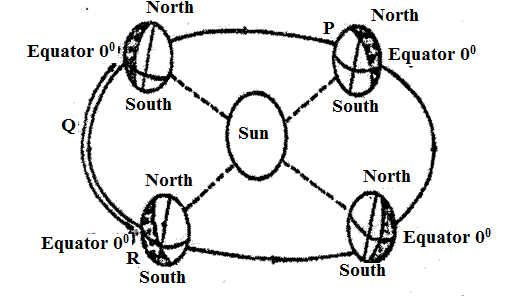
**For Examiners Use Only**

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| --- | --- | --- | --- |
| **Section** | **Questions** | **Maximum Score** | **Candidates Score** |
| **A** | **1 – 5** | **25** |  |
| **B** | **6** | **25** |  |
|  | **25** |  |
|  | **25** |  |
|  | **TOTAL SCORE** | **100** |  |

**SECTION A (25 MARKS)**

1. (a) Give **two** evidences supporting the Nebula Cloud theory on the origin of the earth. (2marks)

(b) The diagram below represents the revolution of the earth.



Give **three** climatic conditions in Europe when the earth is in position R. (3marks)

2. (a) Give **two** forces that may cause faulting process. (2marks)

(b) Describe how a block mountain is formed through compressional forces. (3 marks)

3. (a) What is natural vegetation? (2 marks)

(b) Identify the temperate grassland in the following countries

- Argentina (1mark)

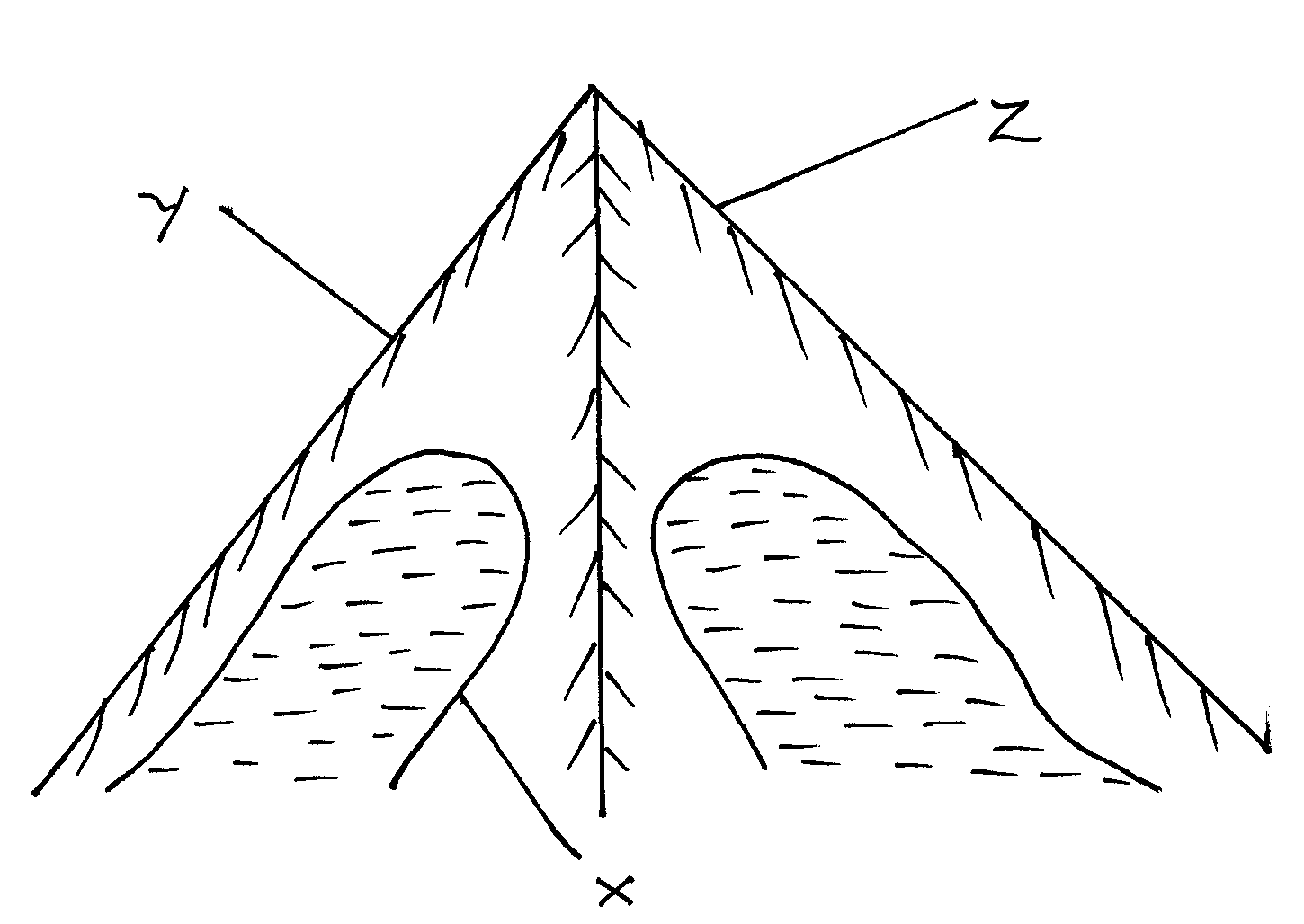
- South Africa (1 mark)

- Australia (1 mark)

4. (a) Name **two** types of tides. (2marks)

(b) State **three** conditions necessary for formation of a beach. (3marks)

5. (a) Study the diagram below and answer the questions that follow.



(i) Name the features marked

X (1 Mark)

Y (1 Mark)

Z (1 Mark)

(ii) Identify **two** processes through which the feature marked X is formed. (2 marks)

**SECTION B**

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

6. Study the map of Nyeri 1: 50 000 (sheet 120/4) provided and answer the following questions.

a (i) Identify the sheet number of the map provided (1mark)

(ii) Convert the scale of map into a statement scale. (2marks)

(iii) What is the bearing of the trigonometrical station 1906 in grid square 6860 from the trigonometrical station 1865 in grid square 6957. (2 marks)

b (i) Identify **three** physical features found in grid square 6259. (2 marks)

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

(iii) Identify **two** districts in the area covered by the map. (2 marks)

c (i) Using a scale of 1 cm represents 20m, draw a cross section from Easting 68 to Easting 74 along Northing 64 . (4 marks)

On it mark and name

* A hill top (1mark)
* A stream/river (1 mark)
* All weather road loose surface (1mark)

(ii) Calculate the vertical exaggeration of the cross-section. (2 marks)

d) Citing evidence from the map, identify **two** social services offered in Mweiga Township. (4 marks)

7. (a) What is climate (2 marks)

(b) (i) Explain **two** effects of climate change on the physical environment. (4 marks)

(ii) State **four** characteristics of the hot desert climate. (4 marks)

(c) Using a well-labelled diagram, explain the formation of anabatic winds. (5 marks)

(d) (i) Define micro climate. (2 marks)

(ii) Explain **four** human activities that can lead to aridity and desertification. (8 marks)

8. (a) Identify **two** types of earthquake waves. (2 marks)

(b) (i) Describe **two** ways in which the strength of an earthquake is measured. (4 marks)

(ii) State **three** human causes of earthquakes. (3 marks)

(c) Explain **four** effects of earthquakes on physical environment. (8 marks)

(d) Students from Karatina School carried out a field study of an area affected by earthquake.

(i) Identify **three** effects they noticed on human environment. (3 marks)

(ii) State **three** advantages of collecting information in the area using photographs? (3 marks)

(iii) Give **two** problems they are likely to experience (2 marks)

9. a) i) Distinguish between the river system and river interfluves (2 marks)

ii) Give **three** types of river erosion. (3 marks)

b) i) What is a waterfall? (2 marks)

ii) Give **four** types of waterfalls. (4 marks)

c) Describe each of the following drainage patterns.

i) Dendritic pattern (4 marks)

ii) Trellis pattern (4 marks)

d) Your class is required to carry out a field study on the lower course of a river.

i) Give **three** advantages of dividing the class into groups. (3marks)

ii) List **three** features the students would identify. (3marks)

10. a) i) Define the term ‘leaching’. (2 marks)

(ii) State two factors that contribute to the leaching of soils. (2 marks)

b) (i) Explain how laterization (ferrallization) occur. (6 marks)

(ii) State t**hree** types of soils degeneration. (3 marks)

c (i) Explain **four** ways in which vegetation protects the soils and prevents soil erosion. (8 marks)

(ii) State **four** advantages of mulching soil using organic matter. (4 marks)

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