**NAME: ………………………………………..ADM NO: …………………………………**

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

**GEOGRAPHY**

**FORM 2**

**TERM 1**

**YEAR 2023**

**TIME: 2 HOURS**

**INSTRUCTIONS**

**1. Write your Name and admission number in the spaces provided above.**

**2. Answer all the questions in the spaces provided.**

**3. Candidates should answer the questions in English**

**4. This paper consists of 8 printed pages**

 **FOR EXAMINER’S USE ONLY**

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** |  **QUESTIONS** |  **MAXIMUM** |  **CANDIDATE**  **SCORE** |
|  **A** |  1-5 |  25 |  |
|   **B** |  6 |  25 |  |
|  7 | 25 |  |
|  8 |  25 |  |
|  |

***ANSWER ALL THE QUESTIONS***

**SECTION A**

1. The diagram below shows the structure of the atmosphere. Use it to answer question (a)

 500 500

HEIGHT IN KMS

 THERMOSPHERE

80 80

 MESOSPHERE

50 50

 p

 P

 8-18 8-18

 TROPOSPHERE

 EARTH

1. i) Name the part labelled **P**  (1 mk)

…………………………………………………………………………………………………………………………………………………………………………

ii)State **two** characteristics of the part marked **P** (2 mks)

………………………………………………………………………………………………………………………………………………………………………….

1. List **two** processes by which the solar radiation is lost in the atmosphere

 (2 mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. a) Define the solar system (2 mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

b) Differentiate between rotation and revolution of the earth (2mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. a)Define the term environment (2 mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

b)Give **four** reasons why it is important to study Geography (4 mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. a) Name the **two** major branches of geography (2 mks)

………………………………………………………………………………………………………………………………………………………………………………………………

b)Name **two** theories that attempt to explain the origin of the earth and the solar system (2 mks)

………………………………………………………………………………………………………………………………………………………………………………………………

c) State **three** characteristics of the sun (3 mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. State **three** proofs that explain the spherical shape of the earth (3 mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

**SECTION B ANSWER ALL THE QUESTIONS**

1. Study the climatic data in the table below and answer the questions

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| months | **J** | **F** | **M** | **A** | **M** | **J** | **J** | **A** | **S** | **O** | **N** | **D** |
| Temp 0 C | 29.9 | 23.9 | 23.3 | 21.7 | 18.8 | 17.8 | 16.8 | 17.2 | 18.9 | 20.1 | 21.7 | 22.3 |
| Rainfall in mm | 109.2 | 121.9 | 129.9 | 76.2 | 50.8 | 33 | 27.9 | 38.1 | 71.1 | 109.2 | 121.9 | 119.4 |

1. Draw a simple bar graph to represent the rainfall data. Use a vertical scale of 1 cm rep 10 mm. (6 mks)
2. Calculate the annual temperature range for the station (2 mks)
3. With the aid of a well labelled diagram, describe the formation of relief rainfall

 (6 mks)

1. Name any **four** types of fog (4 mks)

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Your class conducted a field study on a weather station
2. State **four** preparations you made for the study (4 mks)

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

ii)Give **three** problems you encountered during the field study (3 mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

1. a) Differentiate between minerals and rocks (2 mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

b) Describe the following characteristics of minerals

i) colour (2 mks)

………………………………………………………………………………………………………………………………………………………………………………………………

ii)cleavage (2 mks)

………………………………………………………………………………………………………………………………………………………………………………………………

iii)hardness (2 mks)

………………………………………………………………………………………………………………………………………………………………………………………………

c) Name the **three** classifications of rocks according to their origin and mode of formation. (3 mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

d) Give **three** examples of plutonic rocks (3 mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

e) i) You are required to carry out a field study of rocks within the vicinity of your school.

a) State how you would use the following items during the field study

i) Geological hammer (2 mks)

………………………………………………………………………………………………………………………………………………………………………………………………

ii)Polythene bags (2 mks)

………………………………………………………………………………………………………………………………………………………………………………………………

iii) Route map (2 mks)

………………………………………………………………………………………………………………………………………………………………………………………………

b) List **three** methods you would use to record the information gathered during the study (3 mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

c)Ways in which rocks contribute to the economy of Kenya (2 mks)

……………………………………………………………………………………………………………………………………………………………………………………………..

8. a) Name **three** types of maps (3 mks)

………………………………………………………………………………………

………………………………………………………………………………………

………………………………………………………………………………………

 b)Mention **four** types of marginal information (4 mks)

 ………………………………………………………………………………………………

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 c)Convert the following representative fraction into statement scale

 1:50,000 (2 mks)

 d)Give **three** uses of scales (3 mks)

 ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 e)i)What are the main factors influencing mining (4 mks)

 ………………………………………………………………………………………………

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 ii)Explain **three** problems facing exploitation of soda ash in Kenya (6 mks)

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ……………………………………………………………………………………….

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 ………………………………………………………………………………………

 iii)Give **three** economic contributions of gold and diamonds to the economy of the

 Republic of South Africa (3 mks)

 ……………………………………………………………………………………...

 ……………………………………………………………………………………..

 ……………………………………………………………………………………