**Name**: …………………………………………………………. **Adm** **no**: ……………….

**School**: ……………………………………………………….. **Class**: …………………..

**Signature**: …………………………………… Da**te**: …………………...

**GEOGRAPHY**

**FORM 2**

**COMPREHENSIVE PAPER**

**TIME: 2 ½ HOURS**

**FORM 2 TERM 1 OPENER (ENTRY) 2024 EXAMS**

**THE TOP SCHOOLS MULTILATERAL SERIES 1**

**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)

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

(2 mks)

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

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

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

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

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

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

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

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

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**SECTION B ANSWER ALL THE QUESTIONS**

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

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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)

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

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

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

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b) Describe the following characteristics of minerals

i) colour (2 mks)

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ii)cleavage (2 mks)

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iii)hardness (2 mks)

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

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

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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)

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ii)Polythene bags (2 mks)

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

iii) Route map (2 mks)

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

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

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

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

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c)Convert the following representative fraction into statement scale

1:50,000 (2 mks)

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

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

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

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

Republic of South Africa (3 mks)

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