

## **OPENER EXAMINATION: TERM 1 2024**

MARKING SCHEME FORM 2 GEOGRAPHY

## **INSTRUCTIONS.**

Answer all questions in the space provided.

1) a) Define the term Environment.

- (2mks)
- ✓ Geography is a scientific study of the earth as a home of man.
- b) Give three subjects related with geography.

(3mks)

- ✓ Agriculture
- ✓ Biology
- ✓ Chemistry
- ✓ Meteorology
- ✓ Climatology
- ✓ Civil engineering
- ✓ Mathematics
- ✓ Physics
- ✓ Economics
- 2) a) Name the two main braches of Geography.

(2mks)

- ✓ Physical geography
- ✓ Human geography
- b) Outline the three ways in which a student benefit from learning Geography.

(3mks)

- ✓ Learners are able to learn and explain the origin of the earth.
- ✓ Learners develop skills of observations and reading.
- ✓ Enable learner to understand and appreciate different environment.
- ✓ Geography is a career subject.
- 3) a) Define the term Solar system.

(2mks)

- ✓ The solar system is made up of the sun with eight planets orbiting around the sun.
- b) State three major weakness of solar system.

(3mks)

- ✓ Chances of another star approaching the sun is minimal.
- ✓ High temperature material drawn from the sun would disappear rather than condense.
- ✓ It does not explain where the sun and the passing star came from.
- 4) a) Give four proofs that the earth is spherical.

(4mks)

- ✓ Circum navigation
- ✓ When approaching a part an observer standing on a cliff will not see the ship until it is close.
- ✓ The earth rotate from west to east.
- ✓ During the eclipse of the moon, the shadow of the earth appears spherical.
- ✓ The earth's horizon is always circular.
- b) The diagram below represents the earth on its axis. Use it to answer questions.



i. Name the latitude marked G,H, I.

(3mks)

G – Tropic of cancer

H-Equator

I – Tropic of capricon

- ii. What is the angle of inclination of the earth's axis from its orbit? (1mk)  $66 \frac{1}{2}$
- iii. State four effects of the rotation of the earth.

(4mks)

- ✓ Cause day and night
- ✓ Causes deflection of wind and ocean current.
- ✓ Cause high and low tides
- ✓ Causes time difference between longitudes.
- 5) The table below represents rainfall and temperature figure for a town in Kenya. Use it to answer the questions that follow.

Month	J	F	M	A	M	J	J	A	S	0	N	D
Temp °c	27	28	28	28	27	25	25	24	25	26	27	26
Rainfall	25	38	99	140	277	439	277	69	142	201	71	25
(mm)												

a. i) Calculate the annual range of temperature for the town.

(2mks)

$$28^{\circ}C - 24^{\circ}C = 4^{\circ}C$$

ii) Calculate the total annual rainfall for the town.

(2mks)

$$25+38+99+140+277+439+277+69+142+201+71+25 = 1803mm$$

b. Use the scale 1cm represent 5°C draw a simple line graph to represent the temperature data given above. (5mks)



- c. Define the following terms:
  - i. Negative lapse rate

(2mks)

✓ This is the increase of temperature with the increase in height.

ii. Positive lapse rate

(2mks)

This is

the decrease of temperature with the increase in height.

iii. Zero lapse rate

(2mks)

✓ This is the decrease of temperature with the increase in height.

- 6) A student was requested to pick out fourteen numbers randomly from a set of numbers: she picked, 20,37,1,66,42,12,6,15,12,42,100,3,82,42: Calculate:
  - a) The mean of the data.

(2mks)

=20+37+1+66+42+12+6+15+12+42+100+3+82+42

=<u>480</u>

14

=3429

b) The mode of the data.

(1mk)

The mode is 42 appears thrice.

c) The median of the data.

(2mks)

1,3,6,12,12,15,20,37,42,42,42,66,82,100

20+37=28.5

2

7) a) i) State three types of maps.

(3mks)

- ✓ Topographical maps
- ✓ Atlas maps
- ✓ Sketch maps
- ii) Give three characteristics of sketch maps.

(3mks)

- ✓ Must be neat and clear
- ✓ Must have a title
- ✓ Must have a key
- ✓ Must be enclosed in a frame
- ✓ Must have compass direction
- iii) Convert 1:50,000 into statement scale.

(2mks)

 $\checkmark$  If 1km = 100,000cm

= 50,000

1x 50,000

100,000

In statement will be 1cm represent 0.5km

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- 8) Students of Anestar Boys Lanet intended to conduct a field study in Dondori Market near their school.
  - a) State three objectives for your study.

(3mks)

- ✓ To find out where the dondori market is situated.
- ✓ To find out what commodity is sold in dondori market.
- ✓ To investigate who are the leaders of dondori market.
- b) List three method they would use to collect data.

(3mks)

- ✓ Administrating interviews
- ✓ Questionnaires
- ✓ Observations
- ✓ Taking measurements
- ✓ Taking samples
- c) What are the methods used to record data?

(4mks)

- ✓ *Note taking*
- ✓ Mapping
- ✓ Field sketching
- ✓ Tabulation
- ✓ Tallying
- ✓ Tape recording
- d) What problems are you likely to face during the study?

(5mks)

- ✓ Researcher may fall sick
- ✓ Responded may become uncooperative
- ✓ Language barrier
- ✓ Transport problems
- ✓ Environmental constraints.
- 9) a) Define mineral.

(2mks)

- ✓ Mineral is naturally occurring crystalline, inorganic substance with definite chemical composition and physical properties.
- ii) State four characteristics of minerals.

(4mks)

- ✓ Different mineral have different degree of hardness.
- ✓ Some minerals aggregate into distinct crystal shapes.
- ✓ Different minerals have different colours
- ✓ Minerals have different texture.

b) Define rock.

(2mks)

- ✓ A rock is any naturally occurring agglomeration of mineral particles forming part of the earth crust.
- ii) Give classification of rocks according to the mode of formation.

(3mks)

- ✓ Igneous rocks
- ✓ Sedimentary rocks
- ✓ Metamorphic rocks
- c) State the significance of minerals rocks.

- (6mks)
- ✓ Rocks form spectacular sceneries which act as tourist attraction site.
- ✓ Certain rocks act as water reservoirs and store a lot of water.
- ✓ Rocks provided the parent material for the formation of rich soils.
- ✓ Some rocks are used in the building and construction industry.
- ✓ Minerals and rocks are a source of income to some people.
- ✓ Rocks provide the main record of past environment.



10) a) Define mining.

(2mks)

- ✓ Mining refers to all attempts to extract valuable minerals either solid, liquid or gas from the earth's crust.
- b) List factors influencing the occurrence of minerals.

(4mks)

- ✓ Veins and lodes
- ✓ Beds and seams
- ✓ Weathering products
- ✓ Alluvial or place deposit
- c) State four influencing exploitation of minerals.

(4mks)

- ✓ Value of minerals
- ✓ The size of the mineral deposit
- ✓ The quality of the ore
- ✓ The methods of mining
- ✓ Level of technology
- ✓ Availability of capital
- ✓ The cost of transport
- d) Identify three main method if mining.

(3mks)

- ✓ Open cast mining
- ✓ Underground mining
- ✓ Alluvial mining

