

GEOGRAPHY FORM I, TERM 2 -2021

NAME.....ADM.....CLASS.....

1. a) Name two branches of Geography. (2mks)

Physical Geography

Human Geography

- b) What is the relationship between Geography and Mathematics? (2mks)

Geography information can be analyzed or presented accurately through application of Mathematical techniques

2. The diagram below represents the internal structure of the earth. Use it to answer question (a)

- a) Name the parts marked U and V. (2mks)

U – Mohorovicic discontinuity (moho)

V – Mantle /Asthenosphere

- b) Describe the composition of the

- i) Crust. (4mks)

- **Divided into two layers ie sime and Sisal**
- **Made of solid rocks**
- **Sial is rich in silica and Aluminium**
- **Sima is rich silica and Magnesium.**
- **Sima is made up of dense rocks 2.8 – 3.0gm/cc**
- **Sial is made of lighter rocks 2.7gm/cc it floats on Sima.**

- ii) Core. (4mks)

- **Composed of two parts (inner core and Outer core)**
- **Outer ore has a density of 10 - 12gm/cc**
- **Temperature of the outer core is 3700°C**
- **Inner core has a temperature of 5500°C**
- **Both the inner and the outer core have iron and Nickel Minerals.**
- **Outer core is in molten state.**
- **The inner core exists in a solid state.**
- **Inner core has higher density of 16 -17gm/cc**

3. a) i) Describe composition of the solar system. (2mks)

The sun is the only star in the solar system. Several planets revolve round the sun. Smaller heavenly bodies include: natural satellite, meteoroids, asteroids and comets.

- ii) The local time at Manaus 60°W is 11.30am. What is the time in Nairobi 37°E. (3mks)

Answer 5:58 P.M

- b) Give five proofs that the earth is spherical. (5mks)

Lunar eclipse

Circular horizons

Photograph taken by satellites

Resemblance to other planets

The approach of a ship in the port

c) State two effects of the rotation of the earth. (2mks)

Day and Night

Deflection of winds

Rising and falling of ocean tides

Variation in speed of air masses

Difference of one hour between meridians 15° apart

4. a) i) Define the term weather. (2mks)

Condition of the atmosphere of a given place over a short period of time

ii) Explain how the following factors influence weather

- Cloud cover. (4mks)
 - **Reduce the amount of solar radiation reaching the earth's surface.**
 - **Heavy cloud cover moderate both day and night temperature**
 - **Absent of Clouds results in high day temperature and very low temperature.**
- Local winds. (4mks)
 - **Land and sea breezes verse direction of prevailing winds**
 - **Sea breeze also lower the temperatures of the surrounding areas**
 - **Sea breeze may also increase precipitation by supplying extra moisture content through evaporation.**

The diagram below represents a weather measuring instrument. Use it to answer question (b)

DIAGRAM

b) Which element of weather is measured using the instrument shown above? (1mk)

Rain gauge

ii) Describe how the instrument is used. (3mks)

- **Erected outside in open ground**
- **Water collects into the collecting jar though the funnel**
- **At time of taking measurements the funnel is removed from the barrel**
- **Water is poured into the measuring Cylinder**
- **A reading in millimetres is taken and recorded**

c) The table below shows the temperature and rainfall readings for station T in one week. Use it to answer question (c)

Day	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Temperature °C	23	23	24	21	25	25	23
Rainfall in mm	50	49	49	45	60	60	49

c) i) Calculate:

The range of temperature for the week. (1mk)

Maximum - Minimum

$$25 - 21 = 4^{\circ}\text{C}$$

The mean weekly rainfall. (2mks)

$$\frac{50 + 49 + 49 + 45 + 60 + 60 + 49}{7} = \frac{362}{7} = 51.71\text{mm}$$

(ii) State four benefits of weather forecasting to people.

(6 marks)

- *It enables farmers to plan their farming activities.*
- *It helps people to choose the clothing for the day.*
- *It influences design of houses.*
- *It guides in the timing of sporting / tourist activities.*
- *It helps in averting natural disasters related to weather.*
- *It guides in landing and taking off of aircrafts.*
- *It helps in planning military activities.*
- *It guides fishing activities*

d) Give four characteristics of the stratosphere. (4mks)

Increase in temperature with increase in height has the ozone which absorbs UV light contains very little dust and water vapour. Atmospheric pressure containers to fall with increase in height

5. Suppose your class carried out a field study on weather around your school environment;

i) Give four methods the class used to collect data in the field. (4mks)

Taking measurements

Observation

Experimentation

Extracting from secondary source

ii) State three advantages of studying weather through fieldwork. (3mks)

First hand information

Reliable data

Data obtained is accurate

Saves time

iii) Highlight problems likely to be encountered during fieldwork. (3mks)

Dishonest respondents

Environmental

Constraints Sickness

Failure in keeping time

6. a) Give three types of maps. (3mks)

Atlas maps

Topographical

Sketch

b) State any two uses of maps. (2mks)

Weather trends indications

Political boundaries

Direction and Location of places

c) i) Name two types of scales. (2mks)

Statement Scale

Linear scale

Representative Fraction scale

ii) Give the uses of scales in a map. (2mks)

Measuring Distance on maps

Calculated on maps