**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**

1. 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 37000C**
* **Inner core has a temperature of 55000C**
* **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**
1. 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 600W is 11.30am. What is the time in Nairobi 370E. (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 150 apart**

1. 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 0C  | 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)

**Maxmum – Minimum**

**25 -21 =0C**

The mean weekly rainfall. (2mks)

**50 + 49 + 55+ 45 + 60 + 60 + 49 = 368**

 **7 7**

 **= 52.57mm**

**(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**

1. 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**

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

**Atlas maps**

**Topographial**

**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**