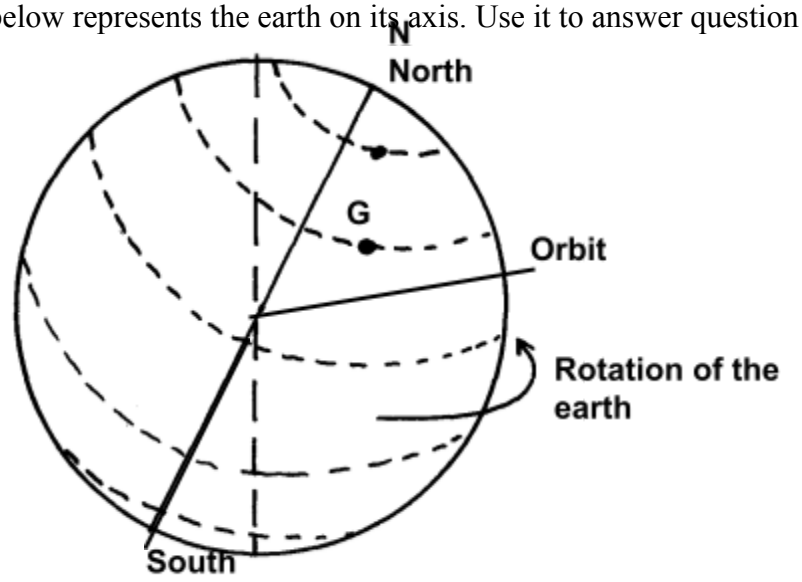
2. THE EARTH AND THE SOLAR SYSTEM

The topic entails:

(i) ***Definition of Solar System.***
(ii) ***Explaining the origin of the earth***
(iii) ***Explaining the effects of rotation and revolution of the earth.***
(iv) ***Description of the structure of the earth***

1. The diagram below represents the earth on its axis. Use it to answer question (a)



a) i) Name the latitude marked **G**

ii) What is the angle of inclination of the earth's axis from its orbit

b) i) State **two** effects of the rotation of the earth

ii) When the local time is 2.00 p.m at longitude 45°E, what is the longitude of a place whose local time is 10.30 a.m

c) Name **two** local winds experience around lake Victoria region

2. 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	O	N	D
Temp (°C)	27	28	28	28	27	25	25	24	25	26	27	26
Rainfall(mm)	25	38	99	140	277	439	277	69	142	201	71	25

a)i) calculate the annual range of temperature for the town

ii) Calculate the total annual rainfall for the town (1mk)

b) State **three** characteristics of the climate experience in the town

3. a) What is a solstice

b) State **three** effects of the revolution of the earth

4. (a) (i) Give **two** theories that explain the evolution of the solar system and the origin of the earth

(ii) Identify the force that causes the earth to bulge at the equator

(b) Give **two** reasons that support the belief that the interior of the earth is very hot

5. a) State **two** theories that are used to explain the origin of the earth

b) What is solar "system"?

6 a). Name **two** planets without natural satellites in the solar system

(b) (i) What is a time zone?

(ii) Give the reason why the International Date Line is significant. (2mks)

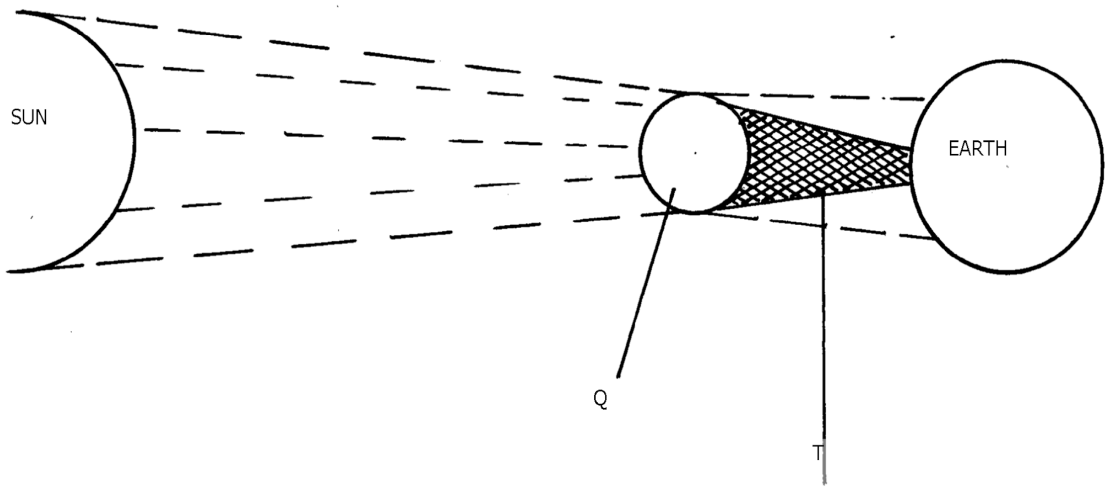
(c) State any **two** characteristics of Latitudes.

7. (a) What is the solar system

(b) Give **three** reasons why the interior of the earth is very hot

8. (a) The diagram below represents an eclipse. Use it to answer the following questions:

(i) Name the type of eclipse



(ii) Identify the parts marked **Q** and **T**

(b) State **three** effects of the rotation of the earth

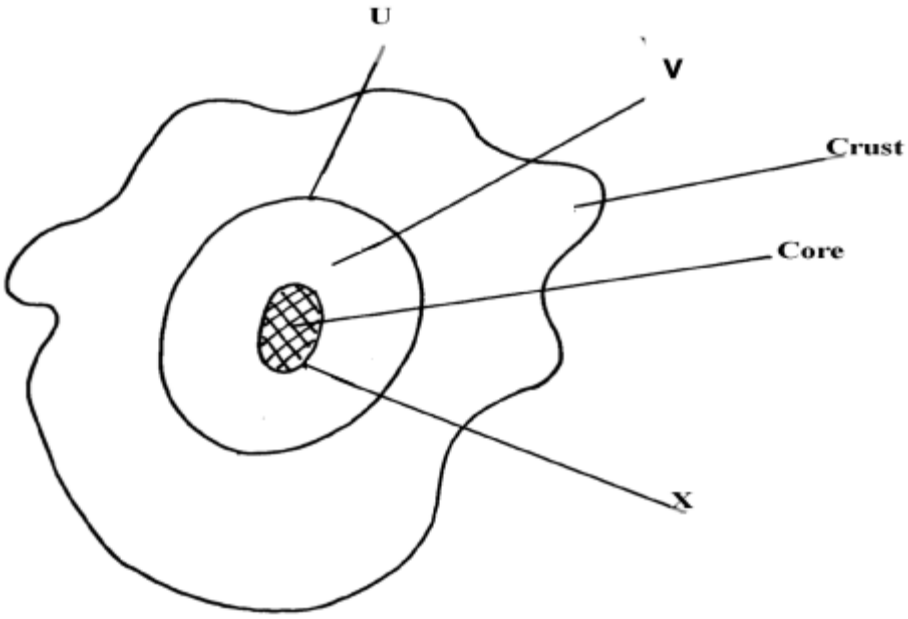
9. a) State **three** reasons why the interior of the earth is known to be very hot
b) Give **two** effects of the elliptical shape of the earth

10. (a) (i)What is an equinoxal date?

(ii) Name **two** equinoxal dates

(iii) State **two** changes caused by the earth's revolution around the sun

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



a)Name the arts named u, v and x

b) Describe the characteristics of
i)Crust ii) Core