**MARKING SCHEME**

1. (a) Define the following terms.

(i) Geography

-The study of earth as a home of man (2mks)

(ii) Environment. (2mks)

- It is the eternal conditions that surround living organis

(iii) Solar System

-It refers to the sun and everything related to it. (2mks)

(iv) Identify the two branches of geography (2mks)

-Physical geography

-Human geography

2. (a) State FOUR characteristics of planets. (4mks)

-All planets revolve around the sun.

- Each planet has its own gravitational force maintained by the sun.

- All planets are spherical.

- Planets rotate as they revolve.

( b) List down FOUR weaknesses of the passing star theory. (4mks)

- Chances of another star approaching the sun are minimal.

-High temperature gaseous material drawn from the sun would disperse rather than condense.

- The effects of the star that set the planets in orbit around the sun would have reduced by now.

- The gases would have followed the star since it had a greater gravitational pull.

- The origin of the star is not mentioned.

3. (a) State how the following forces influence the shape of the earth. (6mks)

(i) Force of gravity-

- Force of gravity attracts objects on the earth’s surface and materials within the earth towards the centre of the earth thus making the earth to appear round.

(ii) Centripetal force

- Centripetal force pulls the North pole and South pole towards each other, hence

(iii) Centrifugal force

- Centrifugal force aerates bulging at the equator due to variation in rotation

towards the equator.

(iv) List down five effects of the earth’s rotation. (5mks)

-Causes day and night

-Causes difference of one hour between meridians 15o apart.

-Causes deflection of winds and ocean currents

-Causes variation the speed of air masses

-Rising and falling of ocean tides.

b) Highlight three characteristics of the mantle (3mks)

-Made up of Iron and Magnesium Silicates

-Density of between 3.0 and 3.3g/cc

-Thickness of about 2900km

-Temperature of about 5000°c due to radio activity

-The outer part is an elastic solid

-The inner part is a viscous fluid.