**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.