**OPENER EXAM**

**GEOGRAPHY – *MARKING SCHEME***

**FORM TWO**

**2023**

1. a) Two main branches of Geography

- Physical geography

- Human geography

 b) Importance of studying geography

- Through geography we are able to study the origin of the earth and the solar system

- It helps the learners to develop the skills of observation reading, analysing and interpreting maps, photographs, charts, diagrams and statistical data

- Geography enables the learners to understand and appreciate different environmental influences at work and different societies

-It allows awareness interaction and co-operation for it teaches interdependence among people

- It teaches us how to manage time

- It is a career subject

- Creates awareness in the people on the significance of management and conservation of the environment

 c) Subjects related to geography

- Agriculture

- Chemistry

- Biology

- Meteorology and climate

-Demography

- Economics

- Mathematics

- Medicine

- Geology

2. a) Weakness of the passing star theory

- Chances of another star approaching the sun are minimal

- High temperatures material drawn from the sun or from the star would disperse rather than condense

- It does not explain where the sun and the passing star came from

 b) Effects of rotation of the earth

- Rotation causes day and night

- Rotation causes a difference of one hour between meridians 150 apart

- It causes deflection of winds and ocean currents

- It causes rising and falling of ocean tides

- It causes variation in atmospheric pressure on the earth surface

c) Layers of the atmosphere

- Troposphere

- Stratosphere

 - Mesosphere

- Thermosphere

3. a) Three types of rainfall

- Relief/ Orographic

- Convectional

- Cyclonic/ Frontal

b) Temperature – thermometer

 Rainfall – Rain gauge

 Humidity – Hygrometer

 Sunshine – sunshine recorder

 Air pressure – Barometer

 c) Weather forecasting is the prediction of the weather situation for a given place within a short period of time

 d) Factors influencing weather

-Altitude

- Nearness to water bodies

- Inter tropical convergence zone

- Humidity

- Latitude

4. a) Methods of recording data

- Field sketching

- Tabulation

- Tallying

- Taking photographs

- Tape recording

- Note taking

- Labeling of samples

 b) Characteristics of minerals

- Different minerals have different degrees of hardness

- Some minerals aggregate into distinct crystal shapes

- Different minerals have different colours for example gold, copper, diamond and silver are composed of one element while others are composed of one element while others such as banxite and feldspar have two or more elements

- Minerals have different textures

- Minerals have lustre

- Different minerals have different specific gravity

c) Main methods of mining

- Open cast mining

- Underground mining

- Alluvial mining

d) Three countries in Middle East producing oil

- Saudi Arabia

- Iraq

-Iran

- Kuwait

- United Arab Emirates

- Bahrain

- Qatar