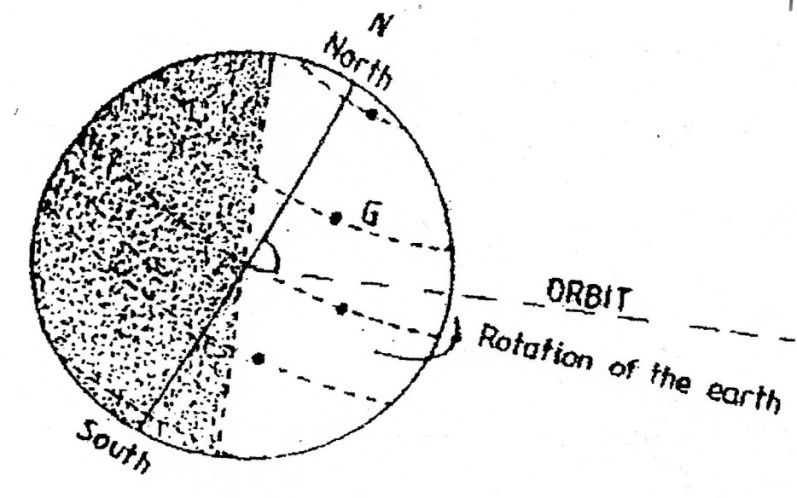
**GEO F2 MARKING SCHEME**

1. The diagram below represents the earth on its axis



1. Name the latitudes marked G and H (2marks)

***G-tropic of cancer***

***H- Arctic circle***

1. What is the angle of inclination of the earth’s axis to its orbit? (1marks)

***66 ½ 0***

1. According to the diagram, which season is being experienced in the southern hemisphere?

***Winter*** (1mark)

1. State four effect of the movement of the earth on its own axis (2marks)

* ***Occurrence of day and night***
* ***Deflection of winds and ocean currents***
* ***Time differenced within longitudes***
* ***Variations in atmosphere pressure at different latitudes***

1. What is a Stevenson’s screen? (2marks)

***A Stevenson’s screen is a white wooden box found in a weather station where thermometers are kept***

1. Give reason for the following characteristics of a Stevenson screen
2. Double boarded roof material (2marks)

***The air space in between the double board is a poor conductor of heat thus thermometer is kept.***

1. Raised to about 1.2 metres (2marks)

***To prevent contact with the hot ground and to allow free entry and circulation of air***

1. Metallic stands (2marks)

***To prevent terminates from destroying the wooden part at the top***

1. Define the term mining (2marks)

***Mining refers to the process of extracting valuable minerals and fossils fuels on or from the earth’s crust***

1. Give three formations in which minerals occur (3marks)

* ***As veins and lodes***
* ***As beds and seam /layers***
* ***As alluvial deposits***
* ***As weathered products***
* ***As evaporates***

1. Explain the contributions of petroleum production in Middle East countries

* ***Middle East countries earn foreign exchange from exports of crude oil and refined petroleum products e.g Saudi Arabia***
* ***The petroleum industry provides employment opportunities to many people who earn income thus improving their standards of living.***
* ***Revenues obtained from the sale of petroleum has enabled Middle East countries to develop efficient roads, railways health and education institutions.***
* ***Development of petro-chemical industries in the countries which also employ many people.***
* ***Oil wealth has enabled some countries to construct nuclear power stations for electricity supply.***
* ***Petroleum production has led to the growth of modern sites within the Arabian and Iranian deserts such as Dubai, Riyath Abu Dhabi and Doha.***

1. Suppose you were to carry out a field study on rocks in the area surrounding your school
2. State three characteristics that you would look for while identifying different rock types (3marks)

* ***The hardness of the rocks***
* ***The density of the rocks***
* ***Texture of the rocks***
* ***Colour of different rocks***
* ***Luster of the minerals farming the rock***
* ***Shape of the rock crystals***

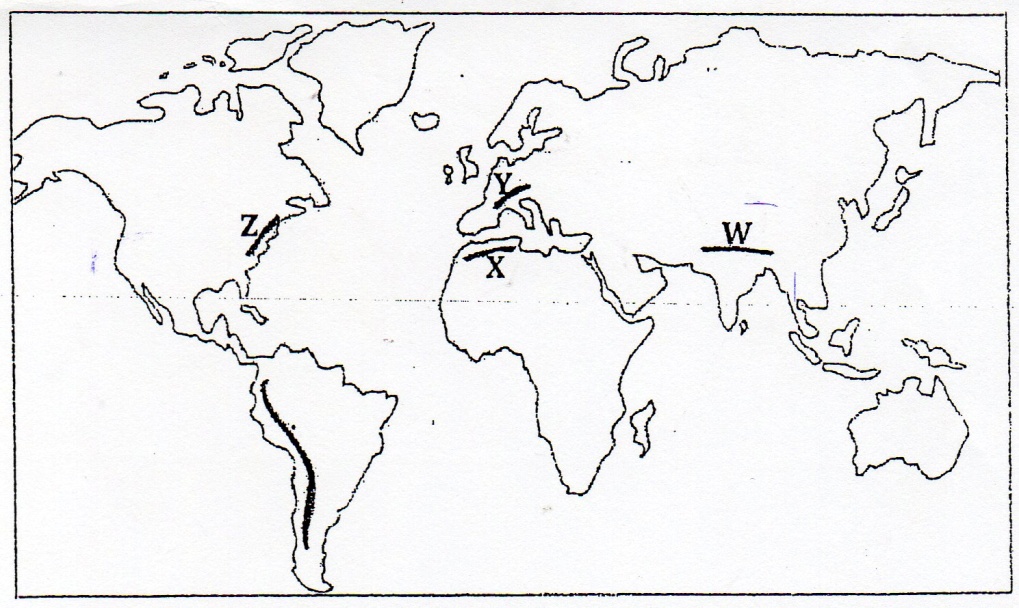
1. Give three appropriate methods that you would look for while identifying different rock types (3marks)

* ***Collecting samples***
* ***Digging***
* ***Observation***
* ***Photographing***
* ***Touching***

1. State three follow up activities for the field study (3marks)

* ***Writing a report in essay form***
* ***Displaying photographs on rocks taken from the field***
* ***Displaying labeled samples***
* ***Laboratory testing of the mineral composition of some rocks collected***
* ***Discussing the findings in groups***
* ***Giving a lecture to the students who never went.***

1. The world map below shows the location of some fold mountains



1. Identify the fold mountains marked W, X, Y and Z (4marks)

***W-Himalays***

***X-Atlas***

***Y-Alps***

***Z-Appalachians***

1. Explain the effects of Fold Mountains on the following
2. Transport (2marks)

***Fold mountain scenery acts as a barrier to easy construction of roads, railways and pipelines thus making it difficult to access some regions due to ruggedness.***

1. Agriculture (2marks)

***Leeward slopes of some fold mountain ranges receive dry winds leading to arid conditions. This discourages crop farming but favours ranching and transhumance***

***Windward slopes of most fold mountains receive high orographic rainfall which supports crop farming***

1. Tourism (2marks)

***Fold mountain scenery and snow capped slopes are important tourist attractions with some slopes favouring winter sports such as skiing and ice skating, e.g Swiss Alps***

1. Name three example of active volcanoes in Africa (3marks)

* ***Nyiragongo***
* ***Nyamlagira***
* ***Oldonyo Lengai***
* ***Teleki***
* ***Likaiyu***

1. Differentiate between seismic focus and epicenter (2marks)

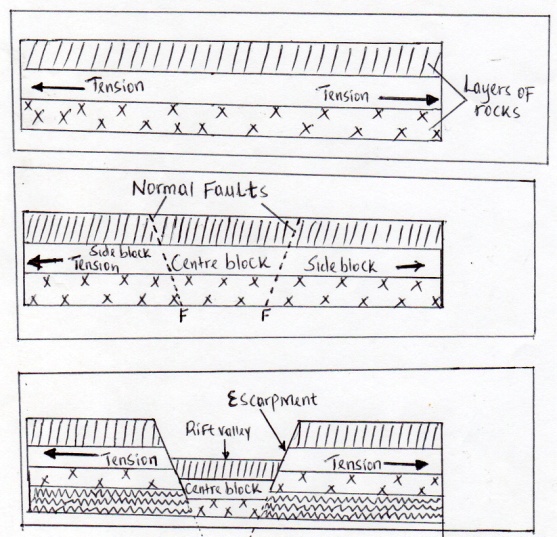
***Seismic focus is the point inside the earth’s crust where an earthquake originates whereas epicenter is the point on the earth surface directly above the seismic focus.***

1. State four human activities that may cause earthquakes (4marks)

* ***Underground testing of thermo-nuclear bombs***
* ***Construction of dams which result in large reservoirs***
* ***Use of very powerful explosions during quarrying and mining***
* ***Movements of trains especially in subways.***

1. With the aid of well labeled diagrams, describe how a rift valley is formed due to tension forces (8marks)

* ***Layers of rocks are subjected to tension forces***
* ***This leads to the formation of two adjacent and parallel normal faults.***
* ***Further tension pulls apart the two side blocks as the centre block gradually sinks to a lower level.***
* ***Sinking of the centre block exposes the fault plane which forms escarpments on the sides.***
* ***The sunken centre block forms the floor of the rift valley***

******

1. What is a photograph? (2marks)

***A photograph is an image of an object which is recorded by a camera on alight sensitive film, paper or a memory card.***

1. Name three types of ground photographs (3marks)

***Ground close ups***

***Ground general view***

***Ground oblique***

1. State three characteristics of aerial oblique photographs

* ***Covers large areas***
* ***Objects on the foreground appear larger and decrease in size towards the background***
* ***The horizon may be covered.***