**GEOGRAPHY PAPER**

**FORM TWO EXAMINATION**

**MULTILATERAL EXAMINATION**

**JULY/AUGUST 2024**

**MARKING SCHEME**

**Instructions: Answer all questions in section in the spaces provided**

1)a) Name the two types of Earth Movement that occur within the earth’s crust (2mks)

* **Horizontal earth movement**

**Vertical earth movement (2 x 1 = 2mks)**

b) State three evidence put forward to proof continental draft theory (3mks)

* **Fitting of Western coast of Africa and S. America into a Jig saw**
* **Discovery of coal 400N and 550N which was formed by burying of tropical vegetation**
* **Considerable displacement of rocks along some faults e.g along the great glen fault of Scotland**
* **Red sea shores show evidence of having undergone lateral displacement an indication that was formed by movement of the earth crust.**

 **(3 x 1 = 3mks)**

**2. a)i)Distinguish between mineral and a rock** –A mineral is an inorganic substances with a definite chemical composition at or beneath the earth surface while rock is an aggregate of mineral particles forming the lithosphere **( 2x1=2mks)**

**ii) Describe the following characteristics of mineral**

* **Hardness**—Different minerals have different degree of resistance to scratching , were some are very hard while other are soft **(2mks)**
* **Lustre** –Minerals differ in their brightness ,depending on the nature of their reflective surfaces , smooth surface are shiny while rough surfaces are dull **(2mks)**

**b) Three Characteristics of sedimentary rocks**

-The rocks are non-crystalline

-The rocks form horizontal layers/stratified .

-The rocks have cleavage / have bending planes

-Some sedimentary rocks contain fossils/ remains of plant and animals

-young sedimentary rocks are elastics **( 3x1=3mks)**

**(c ) You are planning to carry out a field study on the rocks within your school compound**

**i) Formulate two objectives you would use for the study**

-To find out the types of rocks within the school compound

-To find out how different types of rocks are distributed with the compound

 **(2x1=2mks)**

**ii) You collected the following rocks during study Granite ,Diorite and Quartize classify each of this sample into its mode of formation**

-**Granite**......................Igneous rock

-**Diorite**......................Igneous rock

-**Quartize**...................Metamorphic rock **( 3x1=3mks)**

**iii) State three advantages of studying rocks through field work**

-Reduce the monotony and boredom in classroom

-Helps to apply the skills learnt in classroom

-Gives firsthand information on different types of rocks

-Helps to apply the knowledge gained in real life situations

-Helps to familiarize with the rocks

-Provide in depth learning

-It enhances visual memoty of rocks better than theory **( 3x1=3mks)**

**3.a) Mineral mined in the area marked**

**Kakamega**.............Gold

**Shinyanga**.............Diamond

**Isiolo**......................Gemstones **( 3x1=3mks)**

 **(b) Two Forces that influenced the oblate spheroid of the earth**

-Centripetal force

-Centrifugal force

-Gravitational force **(2x1=2mks)**

**(c ) i) Two discontinuity within the interior**

-Mohorovisic discontinuity /moho

-Gutenberg discontinuity **(2x1=2mks)**

**ii) Give three characteristics of the mantle**

-It is divided into two parts , the upper and lower mantle

-The upper mantle has lower temperature than lower mantle

-The upper mantle is an elastic solid/semi –molten

-The lower mantle is viscous fluid

-On average the mantle is about 2900 km thick

-The mantle has an average density of 3.0 – 4.0 gms/cc **(3 x 1 = 3Marks)**

 **(b) Give four reasons why weather forecasting is important**

- Help the farmer to plan their farming activities

- It influence design of houses guides in the timing of sporting tourism activities

- It guides in landing & taking it of aircrafts

- it guides fishing activities

-It guide sporting activities **(Any4 x 1 = 4mks)**

**(d) Suppose you visited a weather station a field study on weather**

**(i) Give three methods you would use to record data**

- Filming/ video tapping/ taking photographs

- Observation

-interviewing

- Reading from secondary sources

- Administering questionnaires

- Taking measurements

- Reading instruments **(Any 3 x 1 = 3 Mks)**

**(ii) State three advantages of studying weather through field work**

* It enables students to collect first hand information
* It enables learner to learn how to use weather instruments
* It enables students to apply the knowledge learned in the classroom
* It make learning real
* It provides detailed/broad learning
* It enhances visual memory learning

 **( Any 3 x 1= 3marks )**

**(iii) State three factors that influences climate**

- Altitude

- Configuration of coastline in relation to prevailing wind

- Aspect

-Latitude

- Distance from the ocean

- Ocean currents

- Wind & air massing

- Human activities

 **( Any 3 x1=3 Marks )**

**5 a) Identify two types of earth crust movement**

-Horizontal /orogenic /lateral movements

-Vertical /Epeirogenic movements

 **(2x1=2mks)**

**(b) Boundary formed when the plate tectonic**

**i) Move away from each other**

 Constructive /Extension/Divergent boundary (1Mark)

**ii) Move past one other**

 Transform /conservative boundary (1Mark)

**(b)Name one fold mountain in**

 **Africa**;.....Atlas /cape ranges

 **North America**......rockies /Appalachians**.( 2Marks)**

**ii) Differentiate between simple symmetrical fold and over- fold**

-Simple symmetrical fold are folds formed by compression forces of equal magnitude , which are weak to moderate in strength while over fold are asymmetrical fold caused by a very strong force pushing against awry resistant force **(2Marks)**

**(c) Apart from fold mountains name three features that result from folding**

-Synclinal valley

-Rolling plain

-Ridges

-Intermontane basin ( **any other 3x1=3mks)**

**6.a)Name two features resulting from faulting**

- Fault scarp/Escarpment /scarp slope

-Tilt block **(2x1=2Marks)**

**( b) (i). State three effects of faulting**

-The resultant features are beautiful attracting tourist

-Depressions formed in Rift valley contains water that form lakes

-Faulting exposes minerals eg diatomite which can be exploited easily

-Step faulting make rivers to have water falls/rapids/cataracts

-Steep slope /scarp slopes formed discourage settlements.

-Faulting/fault scarps make it difficult to construct roads/railway

-Some rivers have had their directions of flow changed disappear into faults

**(Any other 3x1=3mks)**

**ii) Name the rift valley in the following continents**

a) Europe ........................Rhine Rift valley

b) Africa ..........................Great Rift valley

c) North America............San Andreas faults **(3Marks)**

**7. a) (i) Distinguish between vulcanicity and volcanicity**

Vulcanicity is the process in which solid , liquid or gaseous materials are forced out of the interior of the earth’s crust or onto the earth surface while volcanicity is aprocess where igneous material reaches the surface of the earth **(2Marks)**

**ii) Outline two causes of vulcanicity**

-Magma under high temperature and pressure moving through line of weakness or faults

-when tectonic plate moves away from each other and boundaries give way to magma.

-Under ground water coming into contact with hot materials hence changing into gaseous form

( **Any other 2x1=2mks)**

**(** b) (i).Give four causes of earthquakes

* **Collision of tectonic plate energy in the mantle**
* **Violent volcanic eruption**
* **Nuclear explosion**
* **Magma movement within the crust**
* **Gravitative pressure (Any 3 x 1 = 3Marks)**

(ii).Name three types of earth quakes waves

* **Primary / push waves – P – waves**
* **Secondary / shear waves – S – waves**
* **Longitudinal waves – E – waves**

**(3 x 1 = 3mks)**

8)a)(i) What is a photograph?

* **A photograph is an image of an object, person or scene in a form of a print or slide recorded by a camera on a film and later transfers onto a specially prepared paper. (2Marks)**

 ii) List three types of ground photographs

* **Ground close up**
* **Ground oblique**
* **Ground general view (3 x 1= 3 Marks)**

iii) Name three ways in which a photograph can be subdivided horizontally

* **Foreground**
* **Middle ground**

**Back ground (3 x 1 = 3mks)**

(b).Identify the term that describe the following statement

|  |  |  |
| --- | --- | --- |
|  | **Statement**  | **Term**  |
|  | Study of the land forming processes  | **Geomophology**  |
|  | study of heavenly bodies  |  **Astronomy**  |
|  | study of population  | **Demography**  |

**( 3x 1 = 3Marks)**

(c). State four ways a form two student would benefit from studying geography

* **Geography is a career subject**
* **It help the learner to develop skills of observing, reading and analyzing and interpreting maps, diagrams and statistical graphs**
* **It enables the learner to understand different environmental influence**
* **Encourage international awareness and understanding**
* **Load to development career opportunity**
* **Help the learner to explain the origin of the earth**
* **Help the learner to appreciate important social values and Time Management**

**(Any 4 x 1 = 4mks)**

9)(a). Classify the following clouds as either high, middle or low clouds (use a tick)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Types of clouds**  | **Low** | **High** | **Middle** |
| i) | Cirro Stratus |  | √ |  |
| ii) | Altostratus  |  |  | √ |
| iii) | Stratus  | √ |  |  |

 **(3 x 1 = 3mks) .**

**(b) Give 2 factors that are considered when classifying clouds**

- Height

-Shape/form

- Appearance

 **( Any 2 x 1= 2Marks )**

10)a) Differentiate between Magnetic North and True North

* **Magnetic North is North according to the earth’s magnetic field while true is the position of the North Pole as shown on the globe (2mks)**

 b) State three methods of recording statistical Data

* **Field sketching**
* **Mapping**
* **Tabulation**
* **Taking photography**
* **Labeling sample**
* **Filling questionnaire**
* **Tape recording (Any 3x 1 = 3mks)**

11)a)i) Define the term map

* **A map is a representation of a part of the earth or the whole of the earth on a flat surface like a sheet of paper as chalk board drawn to scale.( 2mks)**

ii) Give three characteristics of sketch map (3mks)

* **Should have a title**
* **Should have a key**
* **Should be enclosed in a frame**
* **Neat and clear**
* **Should have a compass direction**

**(Any 3x 1 = 3mks)**