

GEOGRAPHY FORM 2

OPENER EXAM TERM 2 2023

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**INSTRUCTIONS:**

a). Write your name, class and Admission number in the spaces provided above.

b). Answer all the questions

c). All answers must be written in the space provided in this booklet.

**SECTION A**

1. a) What is the time at station Y 30oW when the time at point Z 20oE is 4.00 p.m. (2 mks)

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 b) State three effects of the earth revolution. (3 mks)

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2. a) What are the effects on the shape of the earth by the following forces. (3 mks)

 i) Centrifugal force

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 ii) Centripetal force

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 iii) Gravitation force

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 b) Give the two reasons why the interior of the earth is still very hot. (2 mks)

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3. Stat three conditions for formation of dew. (3 mks)

4. State three characteristics of extrusive rocks. (3 mks)

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5. a) Give two reasons why it is necessary to study the plate tectonic theory. (2 mks)

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 b) Name two types of tectonic plate boundaries. (2 mks)

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**SECTION B**

6. a) Name three types of maps studied in geography. (3 mks)

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 b) State three ways of locating places on maps. (3 mks)

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 c) State three common types of marginal information found in the margin of a map sheet. (3mks)

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 d) The following table shows rainfall and temperature of town X. Use the figures given to answer the questions that follow.

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| Month | J  | F  | M  | A  | M  | J  | J  | A  | S  | O  | N  | D  |
| Temp (oc) | 23 | 24 | 26 | 28 | 29 | 28 | 26 | 26 | 26 | 30 | 28 | 25 |
| Rainfall (mm) | 3 | 0 | 3 | 1 | 18 | 500 | 720 | 408 | 300 | 70 | 15 | 0 |

Find:

1. The total annual rainfall. (2 mks)

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 ii) The wettest month. (1 mk)

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1. Annual range of temperature. (2 mks)

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1. Mean annual rainfall. (2 mks)

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1. The hottest month. (1 mk)

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 e) Name two instruments which could have been used to collect data in the table above. (2 mks)

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7. a) Apart from the rift valley, name three other relief features that were formed as a result of faulting. (3 mks)

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 b) With the aid of well labelled diagrams describe how a rift valley is formed by tensional forces.

 (8mks)

 c) Students are planning to carry out a field study of a faulted landscape. State four reasons why it is important for them to carry out a pre-visit to the area of study. (4mks)

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8. a) i) Name three volcanic features found in the rift valley of Kenya. (3 mks)

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 ii) State two negative effects of vulcanicity in Kenya. (2 mks)

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 iii)Describe the characteristics of a composite volcano. (3 mks)

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b)i) Name two types of earthquake waves. (2 mks)

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 ii) State five ways in which the earth’s crust is affected by earthquake. (5 mks)

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9. a) What is a rock? (2 mks)

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 b) Classify the rocks listed in the table below. (5 mks)

|  |  |
| --- | --- |
| **Name of rock** | **Class**  |
| Marble |  |
| Gneis |  |
| Peridotite  |  |
| Sandstone |  |
| Granite  |  |

 c) i) State two methods of estimating the age of rocks. (2 mks)

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 ii) State four factors that influence metamorphism in rocks. (4 mks)

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 d) State two characteristics of sedimentary rocks. (2 mks)

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10. a)i) Give two examples of non-metallic minerals. (2 mks)

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 ii) Name the minerals mined in each of the following places in East Africa. (3 mks)

1. Kereita in Limuru Kenya –
2. Geita in Tanzania –
3. Kilembe in Uganda –

 b) Describe how shaft mining is carried out. (5 mks)

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 c) Name three conditions necessary for the formation of petroleum. (3 mks)

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 d) State two effects of mining on environment. (3 mks)

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