312/1 GEOGRAPHY Paper 1 TERM 2 2019 Time: 2³/₄ hours

Kenya Certificate of Secondary Education 312/1 Paper 1 GEOGRAPHY

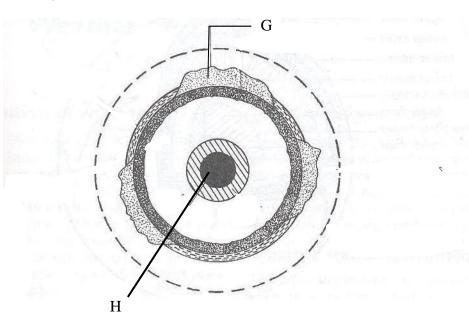
INSTRUCTIONS TO STUDENTS

- This paper has **two** sections **A** and **B**
- Answer ALL the questions in section A. In section B answer questions 6 and any other TWO questions.

SECTION A

Answer **all** the questions in this section.

- 1. (a) What is the relationship between Geography and Chemistry? (2 marks)
 - (b) The diagram below shows the internal structure of the earth.

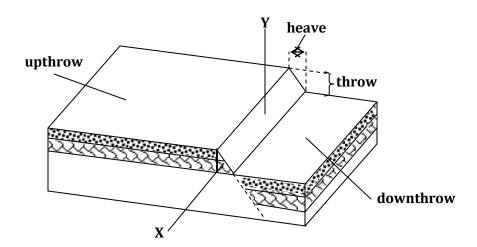


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| | (i) | Name the parts marked G and H . | (2 marks) |
|--------|---------|---|-----------|
| | (ii) | Name the dominant mineral in the mantle. | (1 mark) |
| (a) | Differ | entiate between absolute and relative humidity. | (2 marks) |
| (b) | State t | the significance of humidity in the atmosphere. | (3 marks) |
| The di | agram | below shows some features formed by faulting. | (2 marks) |

2.

3.



| (a) | Name the parts marked X and Y . | (2 marks) |
|-----|--|-----------|
| (b) | State <i>three</i> effects of faulting on drainage of an area. | (3 marks) |
| () | | |

4. (a) Identify *two* scales used to measure the intensity of an earthquake. (2 marks)

(b) Give *three* major earthquake zones of the world. (3 marks)

5. (a) State *two* ways in which plants cause weathering. (2 marks)

(b) Describe the process of weathering through oxidation. (3 marks)

SECTION B

Answer question **6** and any other **TWO** questions from this section.

6. Study the map of Migwani 1:50,000 (sheet 151/1) provided and answer the following questions.

| (a) | (i) | What is the altitude of the lowest contour shown on the map? |
|-----|-----|--|
| | | (1 mark) |

(ii) Give the six-figure grid reference of Mboni dam. (2 marks)

- (iii) What is the length in Kilometres of the All Weather Road Bound Surface C94 from the junction with the Dry Weather Road D502 to Northing 84? (2 marks)
- (b) Draw a rectangle measuring 10 cm by 8 cm to represent the area enclosed by Eastings 90 and 00 and Northings 62 and 70. (1 mark)

On the rectangle, mark and name the following features:

- (i) Musengo school
- (ii) Road E742
- (iii) Kitui Hills

(3 marks)

- (c) (i) Citing evidence from the map, identify *four* social services offered in Mutitu (Ndooa) township. (4 marks)
 - (ii) Describe the relief of the area covered by the map. (6 marks)
- (d) Describe the characteristics of the long profile of river Ikoo. (6 marks)
- 7. (a) (i) Describe the following characteristics of minerals:

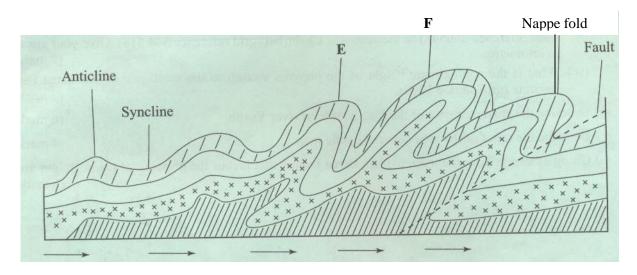
| • | Texture | (1 mark) |
|---|----------|----------|
| • | Tenacity | (1 mark) |

- (ii) Describe how extrusive igneous rocks are formed. (4 marks)
- (b) For each of the following rocks, name the resultant rock that forms after metamorphism.

| (i) | Sandstone | (1 mark) |
|-------|-----------|----------|
| (ii) | Limestone | (1 mark) |
| (iii) | Granite | (1 mark) |

- (c) Explain *three* economic significance of rocks in Kenya. (3 marks)
- (d) Students carried out a field study on rocks around their school.
 - (i) State *two* importance of stating the objectives for their study. (2 marks)
 - (ii) Give *three* reasons why they prepared a route map of the study area. (3 marks)

- (iii) Give *three* activities that the students where involved in during the field study. (3 marks)
- 8. (a) (i) What is an orogeny? (2 marks)
 - (ii) Give *two* factors that influence the folding process of rocks. (2 marks)
 - (b) The diagram below shows some types of folds. Use it to answer the question (i) and (ii).



- (i) Name the types of folds marked **E** and **F**. (2 marks)
- (ii) Describe how an overthrust fold is formed. (4 marks)
- (c) Name the countries in which the following fold mountains are found.

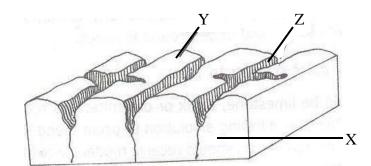
| | (i) | Atlas | (1 mark) |
|-----|-------|--|---------------------------|
| | (ii) | Alps | (1 mark) |
| | (iii) | Himalayas | (1 mark) |
| | (iv) | Andes | (1 mark) |
| (d) | (i) | Apart from fold mountains, name <i>three</i> other features re folding. | sulting from (3 marks) |
| | (ii) | Explain <i>four</i> ways in which fold mountains influence clin | nate. (8 marks) |
| (a) | (i) | Differentiate between a marine delta and a Lacustrine de | lta. (2 marks) |

9.

| | (ii) | Explain <i>three</i> conditions necessary for the formation of a | delta. (6 marks) |
|-----|----------------|---|-----------------------------|
| | (iii) | State <i>three</i> significance of deltas to man. | (3 marks) |
| (b) | (i) | What is a braided channel? | (2 marks) |
| | (ii) | State <i>four</i> conditions necessary for the formation of a brai | ided channel. (4 marks) |
| (c) | With t | he aid of well labelled diagrams, describe how an ox-bow la | ake is formed. (8 marks) |
| (a) | What | is Karst scenery? | (2 marks) |
| (b) | State J | <i>four</i> factors which influence the development of a karst land | dforms. (4 marks) |

(c) The diagram below shows a feature in a Karst landscape. Use it to answer question (i) and (ii).

10.



| | (i) | Name the parts marked X, Y and Z . | (3 marks) |
|-----|-------|--|------------------------------|
| | (ii) | Describe how the features marked Y and Z are formed. | (5 marks) |
| (d) | (i) | Define a lake. | (2 marks) |
| | (ii) | Name <i>two</i> types of lakes which are formed by volcanic ac | tivity. (2 marks) |
| | (iii) | State <i>three</i> reasons why some lakes are salty. | (3 marks) |
| | (iv) | Explain <i>four</i> ways in which lakes are of significance to hu | man activities. (4 marks) |

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