

312/2
GEOGRAPHY
FORM 4
PAPER 1
TIME: 2 ¾ HOURS

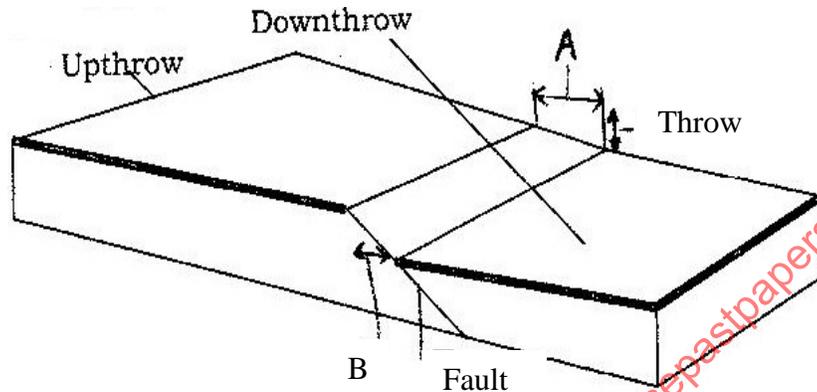
Instructions to Candidates:

- This paper has two sections A and B
- Answer All questions in Section A
- In section B answer question 6 and any other two questions.
- All answers must be written in the answer booklet provided.
- Candidates should answer the questions in English
- This paper consists of 6 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

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SECTION A

1. a) List two features resulting from extrusive volcanic activity. (2 marks)
- b) State four ways in which volcanicity has influenced human activities in Kenya. (4 marks)
2. The block diagram below represent part of earth's crust which has been subjected to tensional forces.



- a) Name the slope marked A (1mark)
- b) State three ways in which faulting can influence drainage systems. (3marks)
3. (a) State three causes of earthquakes. (3 marks)
- (b) Give two effects of earthquakes in built up areas. (2 marks)
4. (a) Name the type of delta found at the mouth of (2 marks)
 - (i) River Nile
 - (ii) River Omo
- (b) State three conditions that are necessary for the formation of delta. (3 marks)
- 5.(a) What is a natural vegetation? (2 marks)
- (b) State three characteristics of Mediterranean vegetation. (3 marks)

SECTION B

Answer question 6 and any other Two questions from this section

6. (a) Study the map of Kericho 1:50,000 provided and answer the following questions.
 - i) Give the longitudinal extent of the area covered by the map. (1mark)

- ii) Convert the scale of the map into a statement scale. (2 marks)
- iii) What is the approximate height of the hill in the grid square 6770? (2 marks)
- iv) Calculate the area of Kericho Municipality. Give your answer in square kilometers. (2 marks)
- b) i) Give three types of natural vegetation found to the west of Easting 53 (3 marks)
- ii) What is the bearing of the trigonometrical station at grid reference 554668 from the factory at grid reference 610626? (2 marks)
- iii) Identify three forms of land transport found to the north of Northing 68 and west of Easting 53? (3 marks)
- c) Describe the distribution of settlements in the area covered by the map. (4 marks)
- d) Citing evidence from the map, explain three factors that favour the establishment of tea estates in the area covered by the map. (6 marks)
7. (a)
- (i) What is a rock? (2 marks)
- (ii) Describe three ways through which sedimentary rocks are formed (6 marks)
- Mechanically formed
 - Organically formed
 - Chemically formed
 -
- (b) Describe two processes through which sedimentary rocks change into metamorphic rocks (4 marks)
- (c) Give an example of each of the following types of igneous rocks (3 marks)
- (i) Plutonic rocks
 - (ii) Hypabyssal rocks
 - (iii) Volcanic rocks
- (d) Suppose you were to carry out a field study of rocks within the vicinity of your school
- (i) Name three secondary sources of information you would use to prepare for the field study (3 marks)
 - (ii) State four activities you would carry during the field study (4 marks)

- (iv) State three problems you are likely to experience during the field study(3 marks)
8. (a) Give three processes that lead to formation of lakes (3 marks)
- (b) (i) Describe how lake Victoria was formed (4 marks)
- (ii) Explain how lake Victoria influences the climate of the surrounding areas (6 marks)
- (c) (i) Apart from Lake Magadi name two other lakes within the rift valley in Kenya that have a high level of salinity (2 marks)
- (ii) Explain three causes of salinity in Lake Magadi (6 marks)
- (d) Give four economic uses of lakes other than mining (4 marks)

9. (a) (i) What is climate? (2marks)
- (ii) Explain two effects of climate change on the physical environment (4 marks)

- (b) The table below shows rainfall and temperature figures of station in Africa

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp in °C	24	24	23	22	19	17	17	18	19	20	22	23
Rainfall in mm	109	122	130	76	52	34	28	38	70	108	121	120

- (i) On the graph paper provided, draw a bar graph to represent the rainfall figure. (Use a vertical scale of 1 cm to represent 10mm) (5marks)
- (ii) Describe the rainfall pattern of the station (4marks)
- (iii) Calculate the average monthly temperature for the station (Show your calculations) (2marks)
- (c) You are supposed to carry out study on the weather within your school compound
- (i) Describe how you would use the following instruments during the field study
- The hygrometer (3 marks)
 - The rain gauge (3 marks)

(ii) State two ways in which the information collected during the field study would be useful to the local community (2 marks)

10. (a) Name three components of soil (3 marks)

(b) Explain how the following factors influence the formation of soil (8 marks)

(i) Climate

(ii) Topography

(c) (i) State two economic uses of soil (3 marks)

(ii) Explain four ways in which human activities contribute to soil erosion (8 marks)

(d) Describe how the following types of erosion occur (3 marks)

(i) Sheet erosion

(ii) Gully erosion

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