

**312/1
GEOGRAPHY
PAPER 1
JULY/AUGUST 2011
TIME: 2¾ HRS.**

BARINGO COUNTY EDUCATIONAL IMPROVEMENT EXAMINATION 2011

**Kenya Certificate of Secondary Education
GEOGRAPHY PAPER 1**

INSTRUCTIONS TO CANDIDATES:

This paper consists of **two** Sections **A** and **B**.

Answer **ALL** the questions in Section **A**. In Section **B** answer question **6** and any other **two** questions in this section.

All answers **must be** written in the Answer Booklet provided.

SECTION A:

Answer all the questions in this section:

1. The diagram **below** shows the structure of the earth.
 - (a) Name the parts marked **P**, **Q** and **R**. (3mks)
 - (b) Name the main rock minerals making up the core. (2mks)
2.
 - (a) Apart from braided river, give two other features resulting from river deposition. (2mks)
 - (b) State **three** factors that favour the formation of river braids. (3mks)
3.
 - (a) Define endogenic processes. (2mks)
 - (b) State **three** effects of horizontal earth movements. (3mks)
4.
 - (a) Differentiate between weathering and mass wasting. (2mks)
 - (b) Describe how weathering occurs by exfoliation process. (3mks)
5.
 - (a) List **two** types of moraine. (2mks)
 - (b) Describe the formation of an arete. (3mks)

SECTION B:

Answer question 6 and any other TWO questions from this section:

6. Study the map of Homa Bay (1:50,000) sheet 129/2 provided and answer the following questions.
 - (a)
 - (i) Calculate the area of Olambwe Valley National Reserve enclosed by the National Reserve boundary. (Give your answer in square kilometers). (2mks)
 - (ii) Name **two** man made features found on grid square 4743. (2mks)
 - (iii) Give the latitudinal and longitudinal extend of Homa Bay. (2mks)

- (b) (i) Draw across section along line Y-X. Use a vertical scale of 1cm to represent 100 feet, on it mark and name.
- Sigulu Hill.
 - River Aoch Diok.
 - Papyrus Swamp. (7mks)
- (ii) Calculate the gradient of the cross section. (2mks)
- (iii) From the cross section drawn, are points X and Y intervisible? Give a reason. (2mks)
- (c) Explain how the following factors have influenced the distribution of settlement in Homa Bay:
- (i) Slope. (2mks)
 - (ii) Drainage. (2mks)
- (d) Describe the relief of the area covered by the map. (4mks)
7. (a) What is climate? (2mks)
- (b) Explain how the following factors influence climate.
- (i) Warm ocean currents. (2mks)
 - (ii) Aspect (2mks)
 - (iii) Altitude. (2mks)
- (c) (i) Draw a sketch map of Kenya, on it mark and name:-
- Modified equatorial climate of the Lake Victoria region.
 - Modified tropical climate. (4mks)
- (ii) Describe the characteristics of Mediterranean climate. (4mks)
- (d) (i) State **three** natural causes of climate change. (3mks)
- (ii) Explain **three** effects of climate change on human activities. (6mks)
8. (a) (i) What is a desert. (2mks)
- (b) Use the world map provided **below** to answer questions **8(b)(i)**.

- (i) Identify the hot desert marked; **A, B, C** and **D**. (4mks)
- (ii) Explain **two** reasons why most deserts are found on the Western side of the continents. (4mks)
- (c) With the aid of well labeled diagrams, described the formation of a yardang. (5mks)
- (d) Students from a school carried out a field study on a desert landscape.
- (i) Formulate **three** objectives of their study. (3mks)
- (ii) Apart from a wadi, name **three** other features they are likely to identify resulting from water action. (3mks)
- (iii) State **four** positive effects of deserts on human activities. (4mks)
9. (a) (i) Distinguish between vulcanicity and volcanicity. (2mks)
- (ii) Name **three** volcanic features found along the floor of Rift Valley in Kenya. (3mks)
- (b) The diagram **below** shows some intrusive volcanic features. Use it to answer the questions that follows.
- (i) Name the features marked **W, X, Y** and **Z**. (4mks)
- (ii) Explain how a sill is formed. (4mks)
- (c) Describe how a lava plateau is formed. (4mks)
- (d) Explain **four** ways in which volcanic mountains positively influence human countries. (8mks)
10. (a) (i) Give **three** processes that lead to the formation of lakes. (3mks)
- (ii) Name any **two** fresh water lakes in Kenya which are located within the Great Rift Valley. (2mks)
- (b) Explain **three** negative effects of lakes on human activities. (6mks)
- (c) (i) Identify relief features on the ocean floors. (3mks)
- (ii) Explain **three** factors that contribute to slight differences in ocean water salinity. (6mks)
- (d) Students of Mpeketoni Secondary School went for a field study on coastal landforms.
- (i) Give **three** methods they used to collect their data. (3mks)
- (ii) Give **two** follow-up activities of the field study. (2mks)