

312/1
GEOGRAPHY
Paper1
July, 2021
Time 2 hours 45 min.

MOKASA 1 JOINT EXAMINATION

Kenya Certificate of Secondary Education

312/1

Paper 1

GEOGRAPHY

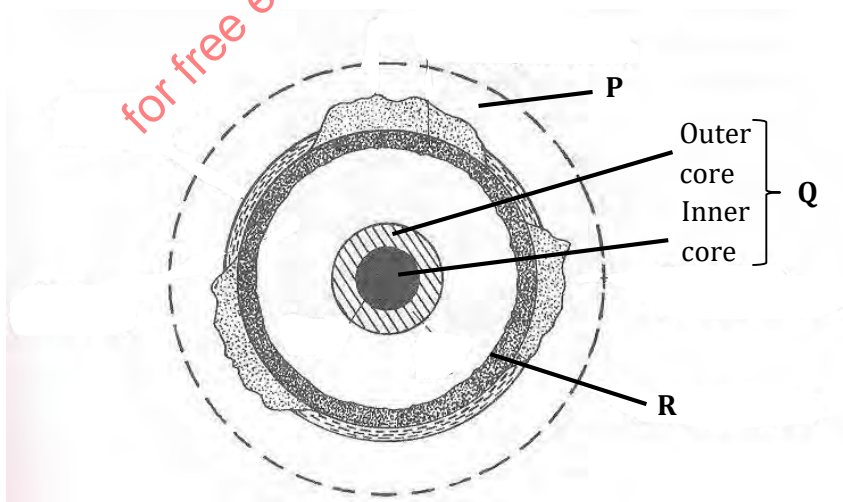
INSTRUCTIONS TO STUDENTS

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

SECTION A: 25 MARKS

Answer **ALL** questions in this section

1. The diagram below shows the structure of the earth.



- (a) Name the parts labelled **P**, **Q** and **R**. **(3 marks)**
- (b) Describe the characteristics of the inner core. **(3 marks)**

2. (a) Give **two** local winds that are found in Kenya. **(3 marks)**
- (b) State **three** conditions that are necessary for formation of dew. **(3 marks)**
3. Explain how the following factors influence climate.
- Oceans currents **(2 marks)**
 - Forests **(2 marks)**
4. (a) What is a lake? **(2 marks)**
- (b) State **three** reasons why some rift valley lakes are fresh water. **(2 marks)**
5. (a) Give **two** main components of soils. **(2 marks)**
- (b) List **three** factors that influence soil erosion. **(3 marks)**

SECTION B

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

6. Study the map of Kijabe **1:50,000 (sheet 134/3)** provided and answer the following questions.
- (a) (i) Identify the type of map provided **(1 mark)**
- (ii) Give the longitudinal extent of the area covered by the map. **(2 marks)**
- (iii) Convert the ratio scale of the map extract into a statement scale. **(2 marks)**
- (b) Draw a rectangle **10cm** by **20cm** to represent part of the area between the northings **90** and **00** and easting **25** and **30** on it mark and name: **(1 mark)**
- (i) Kijabe hill, : **(1 mark)**
- (ii) All Weather Road: Bound Surface A 104, : **(1 mark)**
- (iii) Power line, : **(1 mark)**
- (iv) Provincial boundary, : **(1 mark)**
- (v) Ewaso Kedong Valley. : **(1 mark)**
- (c) (i) Identify **four** types of natural vegetation shown in the area covered by the map. **(4 marks)**
- (ii) Describe the drainage of the area covered by the map **(5 marks)**
- (d) Citing evidence from the map, give **five** economic activities carried out in the area covered by the map. **(5 marks)**

7. (a) (i) Distinguish between minerals and rocks. **(2 marks)**
- (ii) Describe the following characteristics of minerals:
- Colour. **(2 marks)**
 - Tenacity. **(2 marks)**
 - Hardness. **(2 marks)**
- (b) (i) What are sedimentary rocks? **(2 marks)**
- (ii) State **three** characteristics of sedimentary rocks. **(3 marks)**
- (iii) Explain **two** reasons why sedimentary rocks are widespread in the coastal plain of Kenya. **(4 marks)**
- (c) Describe how the following sedimentary rocks are formed.
- Mechanically formed. **(4 marks)**
 - Organically formed. **(4 marks)**
8. (a) (i) Name **two** types of earth movements. **(2 marks)**
- (ii) State **three** causes of earth movement. **(2 marks)**
- (iii) Describe the origin of continents according to the Plate Tectonics Theory. **(5 marks)**
- (b) (i) Define faulting. **(2 marks)**
- (ii) State **three** factors that may influence faulting processes. **(3 marks)**
- (iii) Name **four** types of faults. **(4 marks)**
- (d) With the aid of well-labelled diagrams, describe the formation of rift Valley by compressional forces. **(7 marks)**
9. (a) (i) Name **two** types of hot desert landscapes. **(2 marks)**
- (ii) State **two** reasons why wind erosion is very effective in hot deserts. **(2 marks)**
- (b) (i) A part from Yadangs, name **three** other features that result from wind action in deserts. **(3 marks)**
- (ii) Using well labelled diagrams, describe how Yadangs are formed. **(7 marks)**
- (c) Explain **three** ways through which wind transports its load in desert areas. **(6 marks)**
- (d) State the ways in which desert features are of significance to human activities. **(5 marks)**

10. (a) (i) What is glacier? **(2 marks)**
(ii) Describe how glacier is formed. **(4 marks)**
- (b) Describe **two** processes of ice erosion on a glaciated highland. **(6 marks)**
- (c) (i) Apart from Crag and Tail, name **two** other features formed by ice erosion in lowlands. **(2 marks)**
(ii) Describe how a crag and tail is formed. **(5 marks)**
- (d) Explain **three** positive effects of glaciation in the lowland areas. **(6 marks)**

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