

312/1

GEOGRAPHY

PAPER 1

JULY 2021

TIME: 2<sup>3</sup>/<sub>4</sub> HOURS

Name.....

Class.....

Admission no.....

Date.....

Sign.....

## MOKASA 1 EXAMINATION 2021

*Kenya Certificate of Secondary Education (KCSE)*

312/1

Paper 1

GEOGRAPHY

### *INSTRUCTIONS TO CANDIDATES*

- This paper has two sections, **A** and **B**.
- Answer question **6** and any other **TWO** questions.

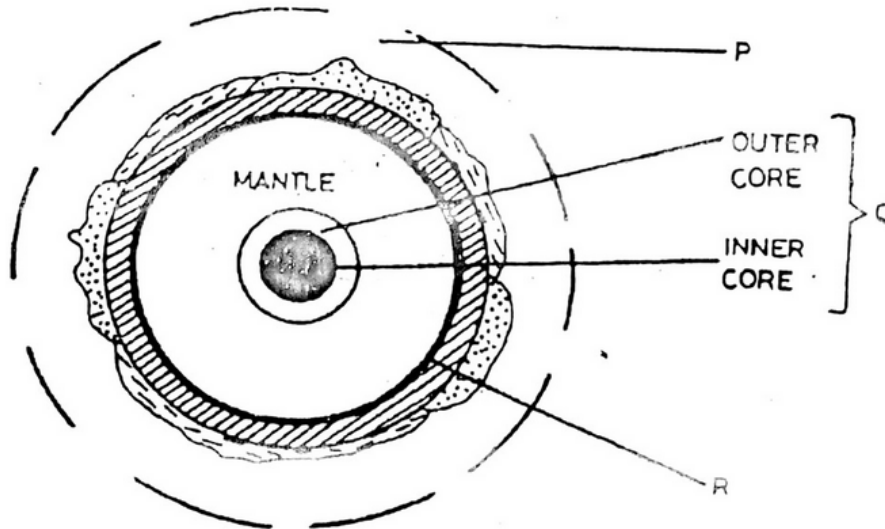
### *FOR EXAMINERS USE ONLY*

| SECTION     | QUESTION | MARKS | SCORE |
|-------------|----------|-------|-------|
| A           | 1-5      | 25    |       |
| B           | 6        | 25    |       |
|             | 7        | 25    |       |
|             | 8        | 25    |       |
|             | 9        | 25    |       |
|             | 10       | 25    |       |
| TOTAL MARKS |          | 100   |       |
| TOTAL SCORE |          |       |       |

## SECTION A:

*Answer all the questions in this section*

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



- (a) Name the parts labelled **P**, **Q** and **R**. (3marks)
- (b) State the characteristics of the inner core. (3marks)
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. (2marks)
- Oceans currents (2marks)
  - Forests (2marks)
4. (a) Define a lake (2marks)
- (b) State **three** reasons why some rift valley lakes are fresh water. (2marks)
5. (a) Give **two** main components of soils (2marks)
- (b) List **three** factors that influence soil erosion (3marks)

## 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 scale of this map into 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: **(6 marks)**  
(i) Kijabe  
(ii) Road A 104  
(iii) Power line  
(iv) Provincial boundary
- (c) (i) Identify **four** types of natural vegetation in the area covered by the map. **(4 marks)**  
(ii) Describe the drainage of the area covered by the map **(5 marks)**
- (d) Identify **five** economic activities and their evidences in the areas 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 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** 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 in which winds transport in desert areas. (6 marks)
- (d) State the significance of desert features to human environment. (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)