

NAME.....ADM.....CLASS.....

TEACHER.....SIGN.....DATE.....

312/1

GEOGRAPHY FORM FOUR

Paper 1

August/September 2022

Time: 2  $\frac{3}{4}$  Hours

## SUKELLEMO JOINT MOCK EXAM

*KENYA CERTIFICATE OF SECONDARY EDUCATION (K.C.S.E)*

GEOGRAPHY

Paper 1

August/September 2022

Time: 2  $\frac{3}{4}$  Hours

### INSTRUCTIONS TO CANDIDATES.

- 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.
- All answers **must** be written in the answer booklet provided.
- Candidates should check the question paper to ascertain that all the pages are printed and that no questions are missing

*This paper consists of 5 printed pages.*

*Candidates should check to ensure that all pages are printed as indicated and no questions are missing*

## SECTION A

*Answer all the questions in this section*

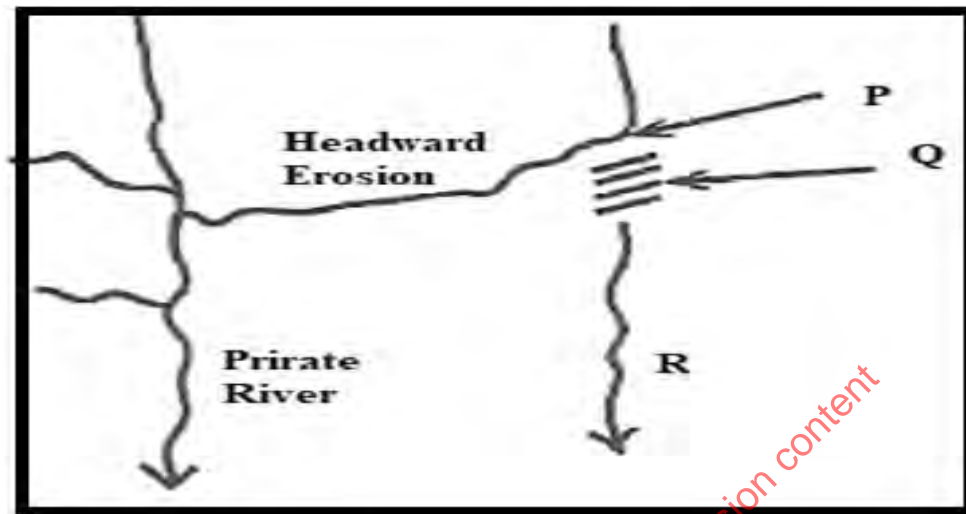
1. a) State **two** sources of sedimentary rocks. (2mks)  
b) State **three** factors which determine the ease and degree of change of original rock during metamorphism. (3mks)
- 2 (a) Differentiate between vent eruption and fissure eruption. (2mks)  
(b) State **two** effects of the earthquakes on the ocean floor (2mks)
3. The map below shows some vegetation regions of the world. Use it to answer questions (a) and (b) below.



- a) Name the temperate grassland named D and E (2mks)
- b) State **three** reasons why grasslands are diminishing in Kenya (3mks)

4 (a) State **two** significance of the hydrological cycle. (2mks)

(b) The diagram below show a river action process. Use it to answer questions that follow.



(i) Identify the process shown above. (1 mark)

(ii) Identify the feature marked P and Q (2 marks)

5 (a) State **two** factors influencing ice movement. (2 marks)

(b) Describe the formation of a roche moutonnee. (3 marks)

### SECTION B

**Answer question 6 and any other two questions from this section**

6. Study the map of Nyeri 1:50,000 (sheet 120/4) provided and answer the following questions.

(a) Given the latitudinal extent of the area covered by the map. (2marks)

(b) (i) What was the magnetic declination as at January 1975? (2marks)

(ii) Calculate the area covered by Nyeri forest in the area covered by the map. (2marks)

(c) Describe the drainage of the area covered by the map. (5marks)

(d) Citing evidence from the map, describe **three** social functions of Nyeri town. (6marks)

(e) (i) Using a vertical scale of 1cm represents 40m, draw a cross-section from grid reference 690640 to 760640. (4 marks)

On the cross-section mark and label;

• River Amboni (1 mark)

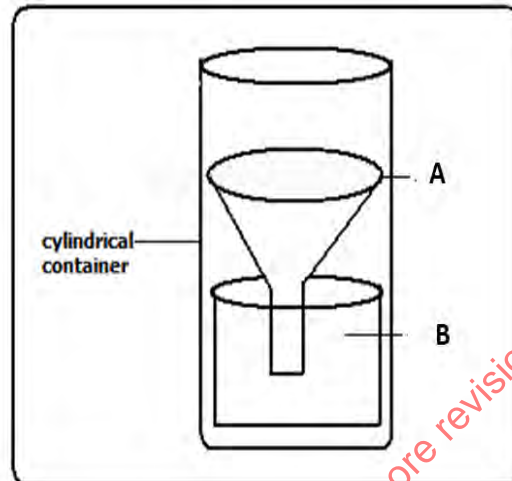
• Hill (1 mark)

(ii) Calculate the vertical exaggeration of the cross section drawn above. (2 marks)

7 (a) i. Describe the characteristics of the Inter Tropical Convergence Zone (ITCZ). (3 marks)

ii. Explain how altitude affects pressure. (2 marks)

(b) The diagram below shows a weather measuring instrument. Study it carefully and use it to answer the questions that follow.



i) Identify the instrument shown above. (1 mark)

ii) Identify the parts labeled A and B. (2 marks)

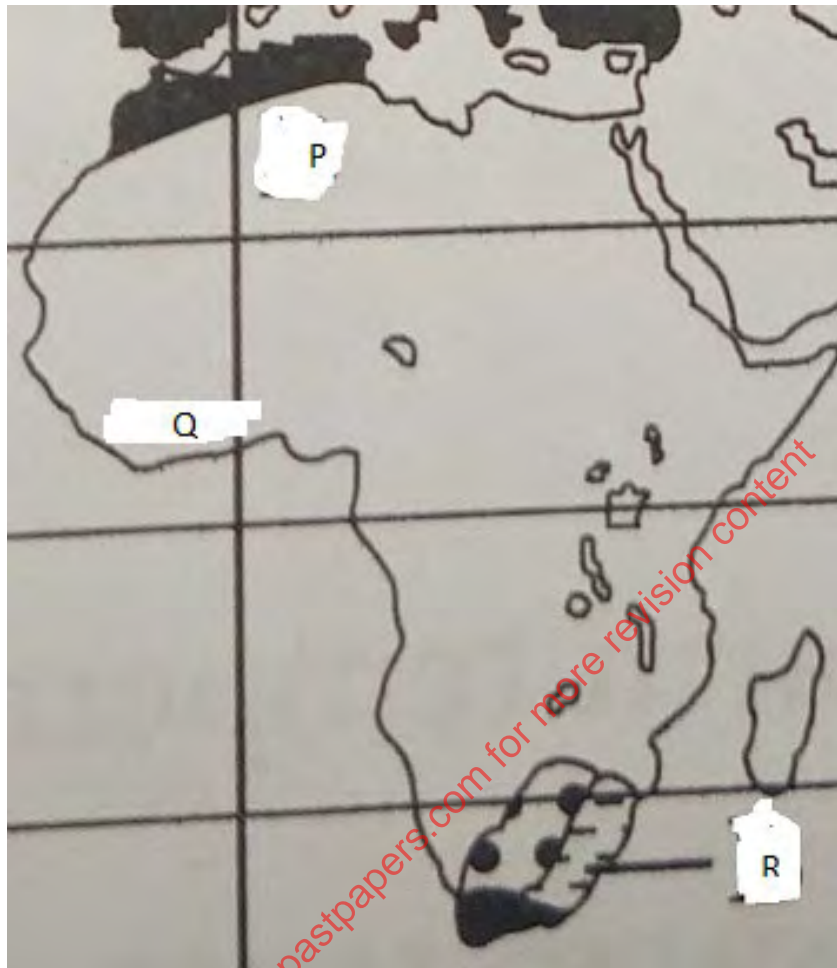
c) The table below shows temperature readings at a weather station. Study it and answer the questions that follow

DAY	MON	TUE	WED	THU	FRI	SAT	SUN
MAX0C	26	25	26	24	27	27	24
MIN0C	15	17	17	13	19	18	17

i. Calculate the daily range of temperature for Monday. (1mark)

ii. Calculate the mean temperature for Friday. (2 mark)

- d. Below is a map of Africa showing the climatic regions of the world. Study it to answer the questions that follow.



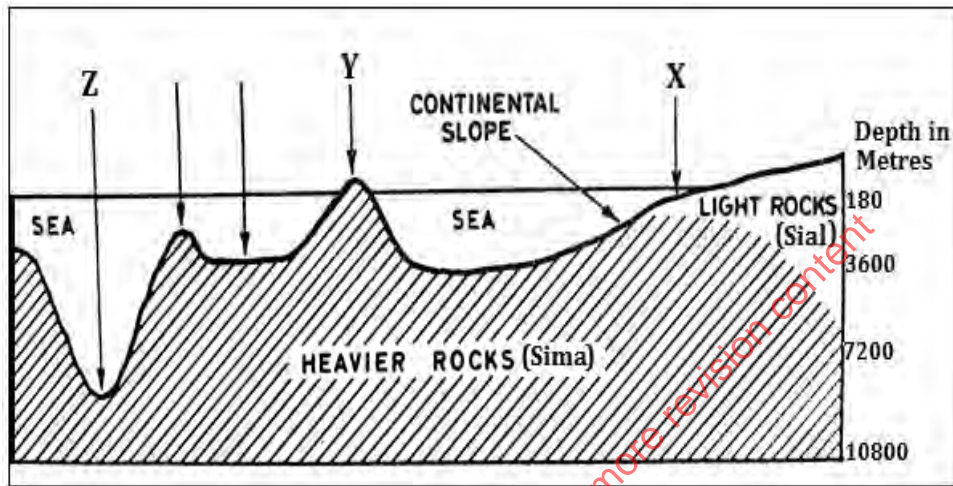
- i. Name the climatic regions marked P, Q and R. (3 marks)
- ii. Explain three characteristics of equatorial climate. (6 marks)
- d. Students conducted a field study on desert climate in northern Kenya
- i. Name the **two** main deserts they were able to identify in their study. (2 marks)
- ii. Apart from health state three other problems they are likely to experience during the field study. (3 marks)
8. (a) (i) Define earth movements (2 marks)
- (ii) State **three** causes of earth movements (3 marks)
- b) i) Name **four** mountain ranges that you know. (4 marks)
- ii) What is geosyncline? (2 marks)

iii) Using well labelled diagrams, explain how the existence of a geosyncline may lead to the formation of fold mountains. (8 marks)

c) Explain **three** positive effects of folding to human activities. (6 marks)

9. a) Name the process through which waves transport the eroded materials along the coast. (1 mark)

b) The diagram below shows some features that form ocean relief.

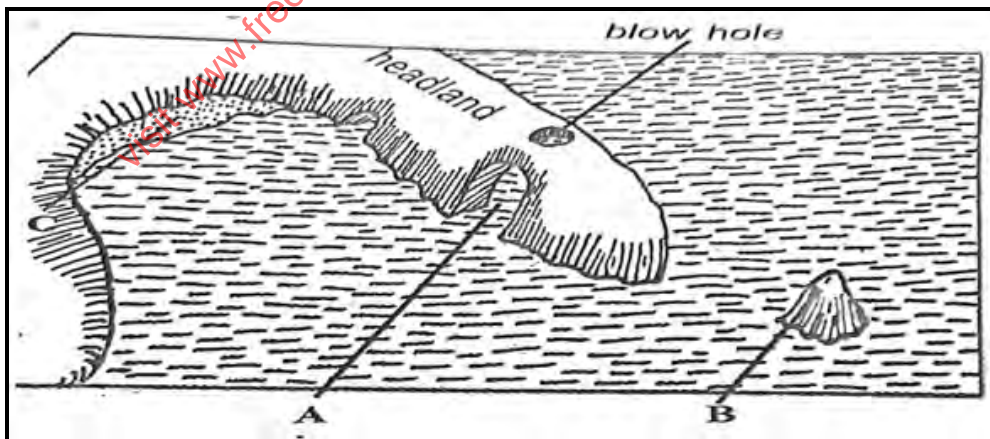


(i) Identify the features marked X, Y and Z. (3 marks)

(ii) List **two** main forms of horizontal movements of ocean water. (2 marks)

c) (i) Name any **three** types of tides. (3 marks)

(ii) The diagram below shows a coastal area.



Identify the features labeled A, B and and C. (3 marks)

(ii) Describe the formation of a headland. (5 marks)

e) Explain **four** significance of coastal landforms to human activities. (8 marks)



10. (a) Name **three** components of soil. (3 marks)
- (b) Explain how the following factors influence the formation of soil
- i) Climate (4marks)
  - ii) Topography (4marks)
- (c) i) State **two** economic uses of soil. (2 marks)
- ii) Explain **three** ways in which human activities contribute to soil erosion. (6 marks)
- d) i) What is soil catena? (1mark)
- ii) Draw a labeled diagram to show a well-developed soil profile. (5marks)

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