

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

DATE..... SIGNATURE.....

**LANJET CLUSTER JOINT EVALUATION**  
**Kenya Certificate of Secondary Education**  
**312/1**  
**GEOGRAPHY Paper 1**

**SEPTEMBER 2022**

**TIME: 2 HOURS 45 MINUTES**

**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 the answers must be written on the foolscaps provided/attached after page 4.
- Candidates must answer the questions **in English**.

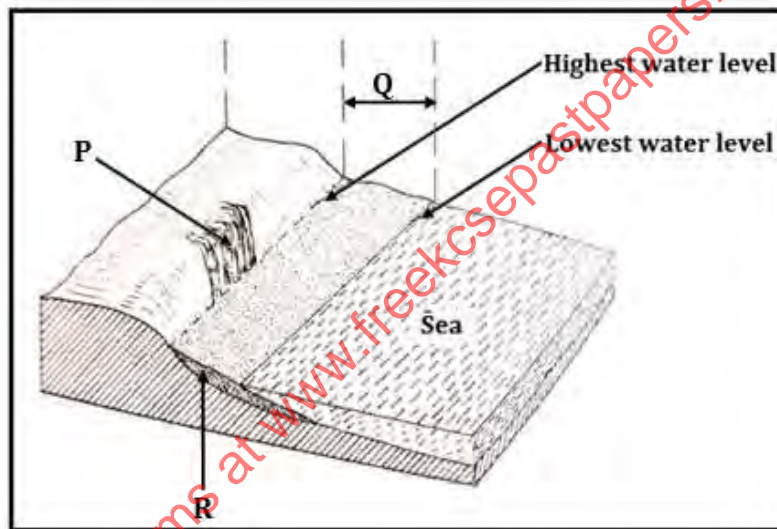
**FOR EXAMINER'S USE ONLY**

Section	Questions	Maximum Score	Candidate's Score
A	1 - 5	25	
B	6	25	
		25	
		25	
Total Score			

***This paper consists of 4 printed pages. Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions/pages are missing.***

### SECTION A

1. (a) Name **three** substances that are found in the atmosphere. (3 marks)
- (b) Give **two** dates of the year when the hours of day and night are equal at latitude 60°N and 60°S. (2 marks)
2. (a) Name **two** fold mountains in North America? (2 marks)
- (b) State **three** causes of vulcanicity. (3 marks)
3. (a) State **two** characteristics of metamorphic rocks. (2 marks)
- (b) Give **three** factors that influence rock metamorphism. (3 marks)
4. (a) Define the term weathering. (2 marks)
- (b) List **three** agents of weathering. (3 marks)
5. The diagram below shows some features associated with a coast.



- (a) Identify the parts marked P, Q and R. (3 marks)
- (b) Outline **two** causes of coastal submergence. (2 marks)

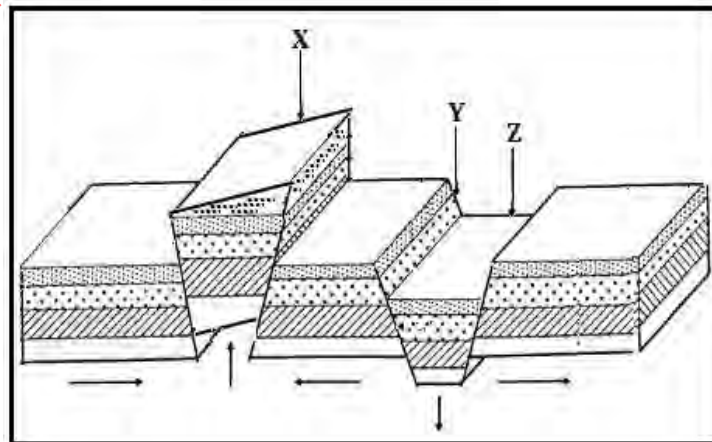
### SECTION B

6. Study the map of Nyeri (1:50,000 sheet 120/4) provided and use it to answer the following questions
  - (a) (i) What is the magnetic variation of the area covered by the map when the map was drawn? (1 mark)
  - (ii) Give the latitudinal extent of the area covered by the map. (2 marks)
  - (iii) Identify **two** relief features at grid square 5465. (2 marks)
  - (b) (i) Determine the direction of the Ark Lodge from the Tree tops Look out Hotel. (2 marks)
  - (ii) Citing evidence from the map, give **four** social services offered in the area covered by the map. (4 marks)

- (c) Describe the drainage of the area covered by the map. (6 marks)
- (d) Explain **four** factors favouring crop farming in the area covered by the map. (8 marks)
7. (a) (i) Differentiate between weather and climate. (2 marks)
- (ii) State **four** factors to consider when choosing a suitable site for a weather station. (4 marks)
- (b) Explain how distance from the sea affects the climate of a place. (4 marks)
- (c) The map below shows some climatic regions of the world. Use it to answer question (c) (i) and (ii).



- (i) Identify the climatic zones marked K, L, M and N. (4 marks)
- (ii) Describe the characteristics of the climatic zone marked L. (5 marks)
- (d) Explain **three** human activities that cause climate change. (6 marks)
8. (a) Define the term faulting. (2 marks)
- (b) The diagram below represents some features formed due to faulting.



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

(ii) Describe how Fold Mountains were formed. (6 marks)

(c) Explain **four** ways in which fold mountains influences human activities. (8 marks)

(d) Suppose you were to carry out a field study of faulting within a section of the Great Rift Valley in Kenya:

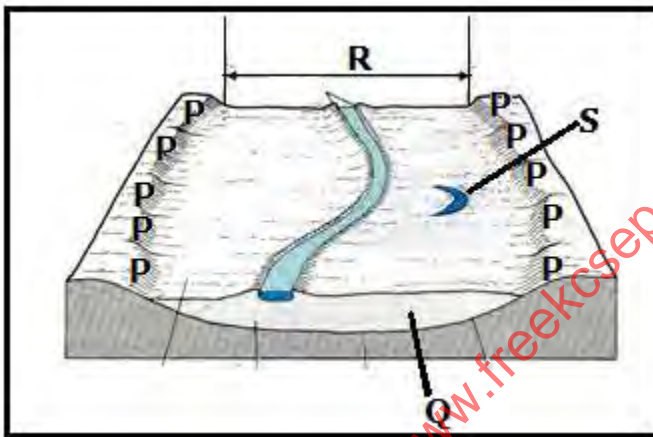
(i) State **three** reasons why they would prepare a route map. (3 marks)

(ii) State **three** disadvantages of using observation as a method of data collection. (3 marks)

9. (a) Differentiate between a river's source and its mouth. (2 marks)

(b) State **five** characteristics of the upper stage of a river. (5 marks)

(c) The diagram below shows some features formed due to action of rivers.



(i) Name the parts marked P, Q, R and S. (4 marks)

(ii) Explain **four** causes of river deposition. (8 marks)

(d) Explain **three** negative effects of rivers to people. (6 marks)

10. (a) (i) What is glaciation? (2 marks)

(ii) Give three types of glacier. (3 marks)

(b) Describe how ice moves under the following mechanisms:

(i) Basal slip (2 marks)

(ii) Extrusion flow (4 marks)

(c) Describe the formation of a glacial trough. (6 marks)

(d) Explain **four** economic importance of glaciated upland features to human activities. (8 marks)