

THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education

312/1 -

GEOGRAPHY

- Paper 1

Nov. 2018 - 2¾ hours

Name Index Number

Candidate's Signature Date



Instructions to candidates

- (a) Write your name and index number in the spaces provided above.
- (b) Sign and write the date of examination in the spaces provided above.
- (c) This paper consists of **two** sections: **A** and **B**.
- (d) Answer **all** the questions in section **A** in the space provided at the end of question 10.
- (e) Answer **question 6** and any other **two** questions from section **B** in the space provided at the end of question 10.
- (f) **This paper consists of 20 printed pages.**
- (g) **Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**
- (h) **Candidates should answer the questions in English.**

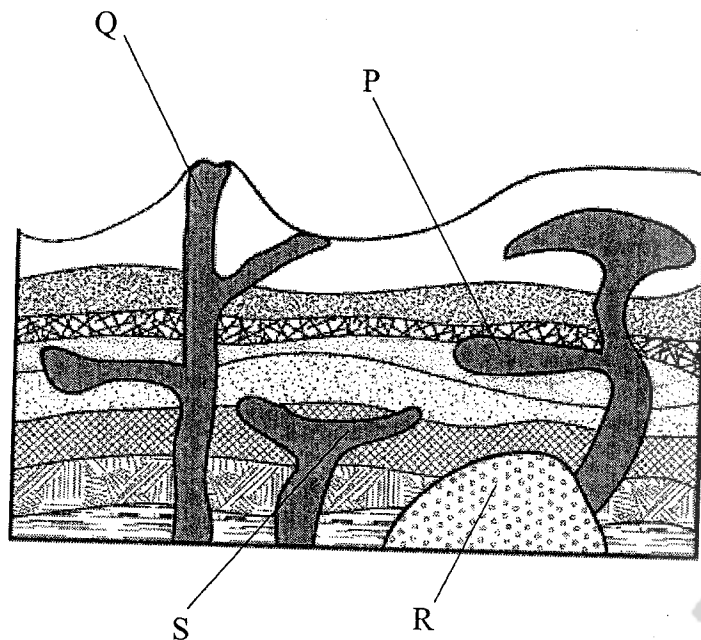
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Section	Questions	Maximum Score	Candidate's Score
A	1-5	25	
B	6	25	
		25	
Total Score			

SECTION A

Answer *all* the questions in this section.

1. (a) Define the term atmosphere. (2 marks)
- (b) State the composition of the inner core. (3 marks)
2. (a) Name **three** types of folds. (3 marks)
- (b) State **three** factors that determine the folding of crustal rocks. (3 marks)
3. The diagram below represents some volcanic features. Use it to answer the questions below.



Name the features marked P, Q, R and S.

(4 marks)

4. (a) Identify the main characteristics of the ocean water. (2 marks)
- (b) Give **three** factors that influence wave deposition. (3 marks)
5. (a) List the **three** types of dunes. (3 marks)
- (b) Identify **two** processes through which wind transports materials in arid areas. (2 marks)



SECTION B

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

6. Study the map of Taita Hills 1:50,000 (sheet 189/4) provided and answer the following questions.
- (a) (i) Give the four figure grid reference of the trigonometrical station (2208m). (1 mark)
- (ii) What is the general direction of the flow of River Voi (Goshi)? (1 mark)
- (b) (i) Measure the length of the road labelled A23. Give your answer in kilometres. (2 marks)
- (ii) Citing evidence from the map, identify **three** social services offered in the area covered by the map. (6 marks)
- (c) Describe the relief of the area covered by the map. (7 marks)
- (d) Citing evidence from the map, explain **four** factors that may have influenced agricultural activities in the area. (8 marks)
7. (a) (i) What is a rock? (2 marks)
- (ii) Give **two** examples of plutonic igneous rocks. (2 marks)
- (b) Describe the processes of formation of each of the following types of sedimentary rocks:
- (i) Mechanically formed. (4 marks)
- (ii) Organically formed. (4 marks)
- (c) State the characteristics of rocks. (5 marks)
- (d) You are planning to carry out a field study on rocks within the local environment.
- (i) List **three** methods you would use to record data. (3 marks)
- (ii) State **three** problems you are likely to encounter. (3 marks)
- (iii) Give **two** economic uses of rocks you are likely to identify. (2 marks)
8. (a) (i) Identify the **two** types of earthquake waves. (2 marks)
- (ii) Describe the **two** ways through which the strength of an earthquake is measured. (6 marks)

- (b) (i) Explain how vulcanicity causes earthquakes. (6 marks)
- (ii) Name **three** major earthquake zones of the world. (3 marks)
- (c) Explain **four** effects of earthquakes on the human environment. (8 marks)
9. (a) Name **two** types of landslides. (2 marks)
- (b) Explain how each of the following factors influence mass wasting:
- (i) Climate (6 marks)
- (ii) Slope (2 marks)
- (c) (i) State **four** causes of soil creep. (4 marks)
- (ii) Using a diagram, describe the process of solifluction. (5 marks)
- (d) You intend to carry out a field study on the effects of mass wasting within the local environment.
- (i) Give **two** methods of data collection that you would use for the study. (2 marks)
- (ii) State **two** negative effects of mass wasting on the physical environment that you are likely to identify. (2 marks)
- (iii) Give **two** follow-up activities you would be involved in after the field study. (2 marks)
10. (a) (i) Name the **three** types of river erosion. (3 marks)
- (ii) Describe each of the following processes of river erosion:
- I. Abrasion (4 marks)
- II. Solution (3 marks)
- (c) Describe the characteristics of the upper stage of a river. (6 marks)
- (d) (i) What is river rejuvenation? (2 marks)
- (ii) Give **four** causes of river rejuvenation. (4 marks)
- (iii) Identify **three** features that result from river rejuvenation. (3 marks)

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