

Name Index Number

312/1
GEOGRAPHY
Paper 1
Nov. 2016
2¼ hours

Candidate's Signature.....

Date.....



THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education
GEOGRAPHY
Paper 1
2¼ hours

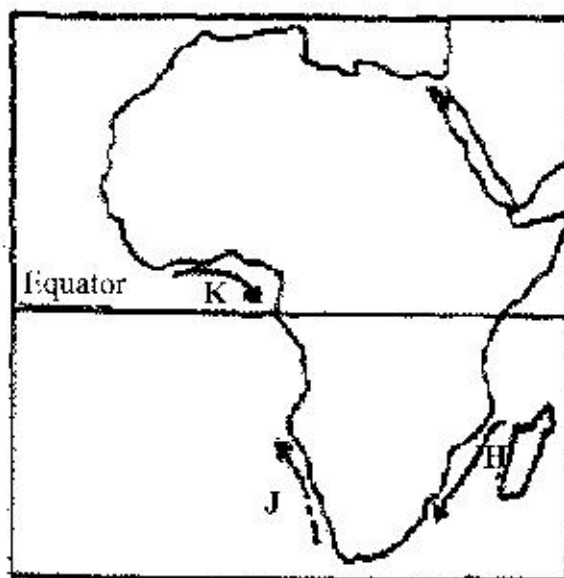
Instructions to candidates

- (a) *This paper has two sections; A and B.*
- (b) *Answer all the questions in section A.*
- (c) *Answer question 6 and any other two questions from section B.*
- (d) *All answers must be written in the answer booklet provided.*
- (e) *This paper consists of 7 printed pages.*
- (f) *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
- (g) *Candidates should answer the questions in English.*

SECTION A

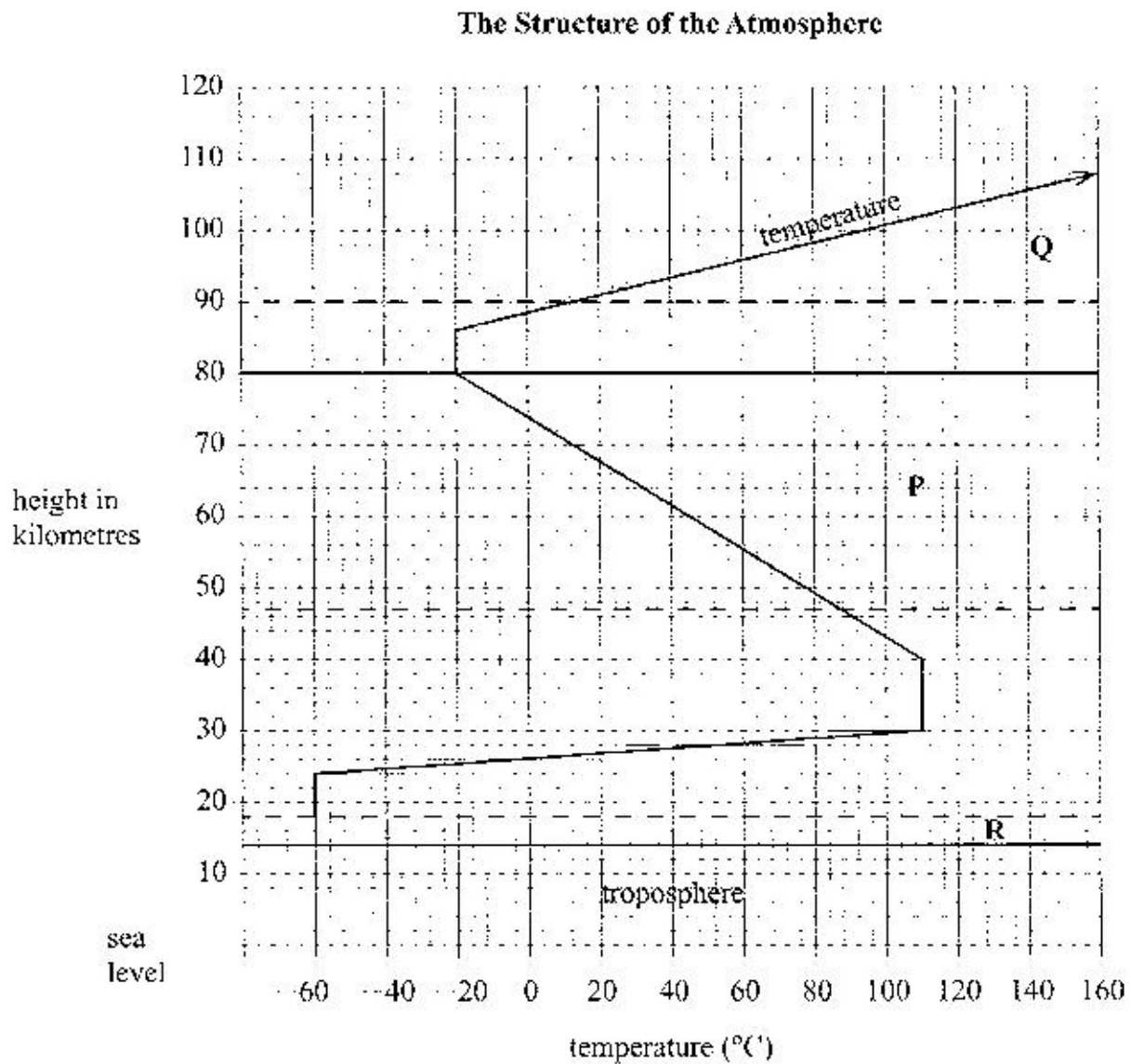
Answer all the questions in this section.

1. (a) How does a sea breeze occur? (2 marks)
- (b) Use the map of Africa below to answer question (b) (i)



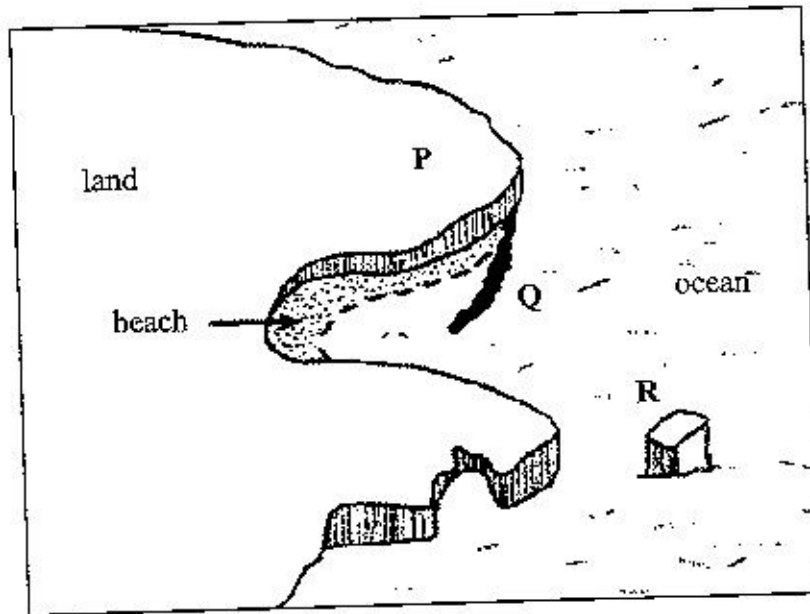
- (i) Name the ocean currents marked H, J and K. (3 marks)
- (ii) State **two** effects of a warm ocean current on the adjacent coastlands. (2 marks)
2. (a) Name **two** types of boundaries according to the plate tectonic theory. (2 marks)
- (b) Give **three** effects of the movement of tectonic plates. (3 marks)

3. The diagram below represents the structure of the atmosphere. Use it to answer question (a).



- (a) Name:
- The parts marked **P** and **Q**. (2 marks)
 - The layer of discontinuity marked **R**. (1 mark)
- (b) State **two** characteristics of weather conditions in the troposphere. (2 marks)

4. The diagram below shows coastal features.



- (a) Name the features marked **P**, **Q** and **R**. (3 marks)
- (b) State **two** conditions necessary for the formation of a beach. (2 marks)
5. Name the **three** major deserts in Africa. (3 marks)



SECTION B

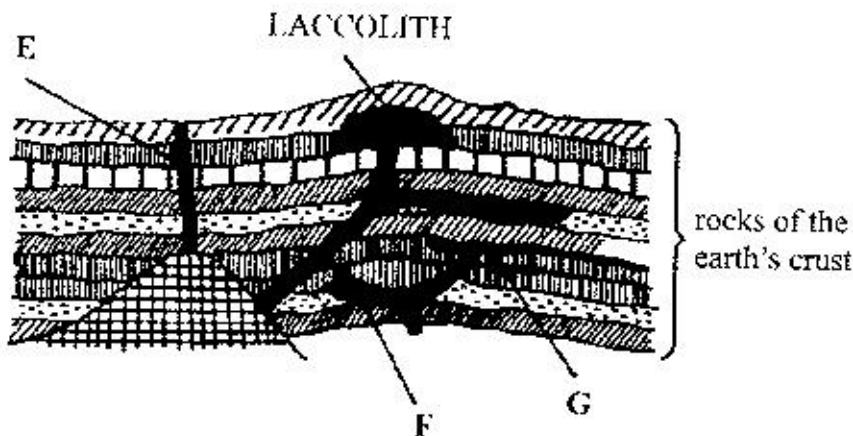
Answer question 6 and any other two questions from this section.

6. Study the map of Kitale 1:50,000 (sheet 75/3) provided and answer the following questions.
- (a) (i) Identify **two** human made features found at the grid square 2320. (2 marks)
- (ii) What is the altitude of the highest point in the area covered by the map? (2 marks)
- (iii) Give **three** types of natural vegetation found in the area covered by the map. (3 marks)
- (b) (i) What is the bearing of the air photo principal point at grid square 3426 from the air photo principal point at grid square 2931? (2 marks)
- (ii) Measure the distance of the dry weather road (C640) from the junction at point M (345142) from the junction at point N (416201) Give your answer in kilometers. (2 marks)
- (c) (i) Using a scale of 1 cm to represent 40 metres, draw a cross-section from grid reference 410180 to grid reference 500180. (4 marks)
- (ii) On the cross-section mark and name the following:
- a dry weather road; (1 mark)
 - River Kaptarit (1 mark)
 - a ridge. (1 mark)
- (iii) Calculate the (VE) vertical exaggeration of the section. (2 marks)
- (d) Citing evidence from the map, identify **five** social services offered in Kitale. (5 marks)



7. (a) (i) Name **two** types of submerged highland coasts. (2 marks)
- (ii) Identify **two** resultant features of the emerged highland coasts. (2 marks)
- (b) State **three** factors influencing deposition by ocean waves. (3 marks)
- (c) With the aid of labelled diagrams, describe the formation of the following coastal features:
- (i) Fringing reef; (5 marks)
- (ii) Spit. (5 marks)
- (d) Explain the significance of oceans to human activities. (8 marks)
8. (a) (i) What is a lake? (2 marks)
- (ii) Name **two** crater lakes in Kenya. (2 marks)
- (b) Describe how each of the following lakes are formed:
- (i) corrie lake; (4 marks)
- (ii) oasis; (4 marks)
- (iii) lagoon. (4 marks)
- (c) (i) Give **three** reasons why some lakes in Kenya have saline water. (3 marks)
- (ii) Explain how each of the following has affected lakes in Kenya:
- deforestation (2 marks)
 - industrialisation (2 marks)
 - water needs. (2 marks)

9. (a) (i) Name **three** types of faults. (3 marks)
- (ii) Apart from compressional forces, explain **two** other processes that may cause faulting. (4 marks)
- (b) With the aid of diagrams, describe how compressional forces may have led to the formation of the Great Rift Valley. (8 marks)
- (c) Explain **five** ways in which faulting is of significance to human activities. (10 marks)
10. (a) Differentiate between magma and lava. (2 marks)
- (b) The diagram below shows some intrusive volcanic features.



Name the features marked E, F, and G. (3 marks)

- (c) Describe how the following features are formed and for each give an example from Kenya:
- (i) a crater (3 marks)
- (ii) a geyser (5 marks)
- (iii) a lava plateau. (4 marks)
- (d) Explain **four** ways in which volcanic features influence human activities. (8 marks)

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