

312/1
GEOGRAPHY
Paper 1
Oct./Nov. 2013
2¾ hours

000139571



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THE KENYA NATIONAL EXAMINATIONS COUNCIL

Kenya Certificate of Secondary Education

GEOGRAPHY

Paper 1

2¾ 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.*



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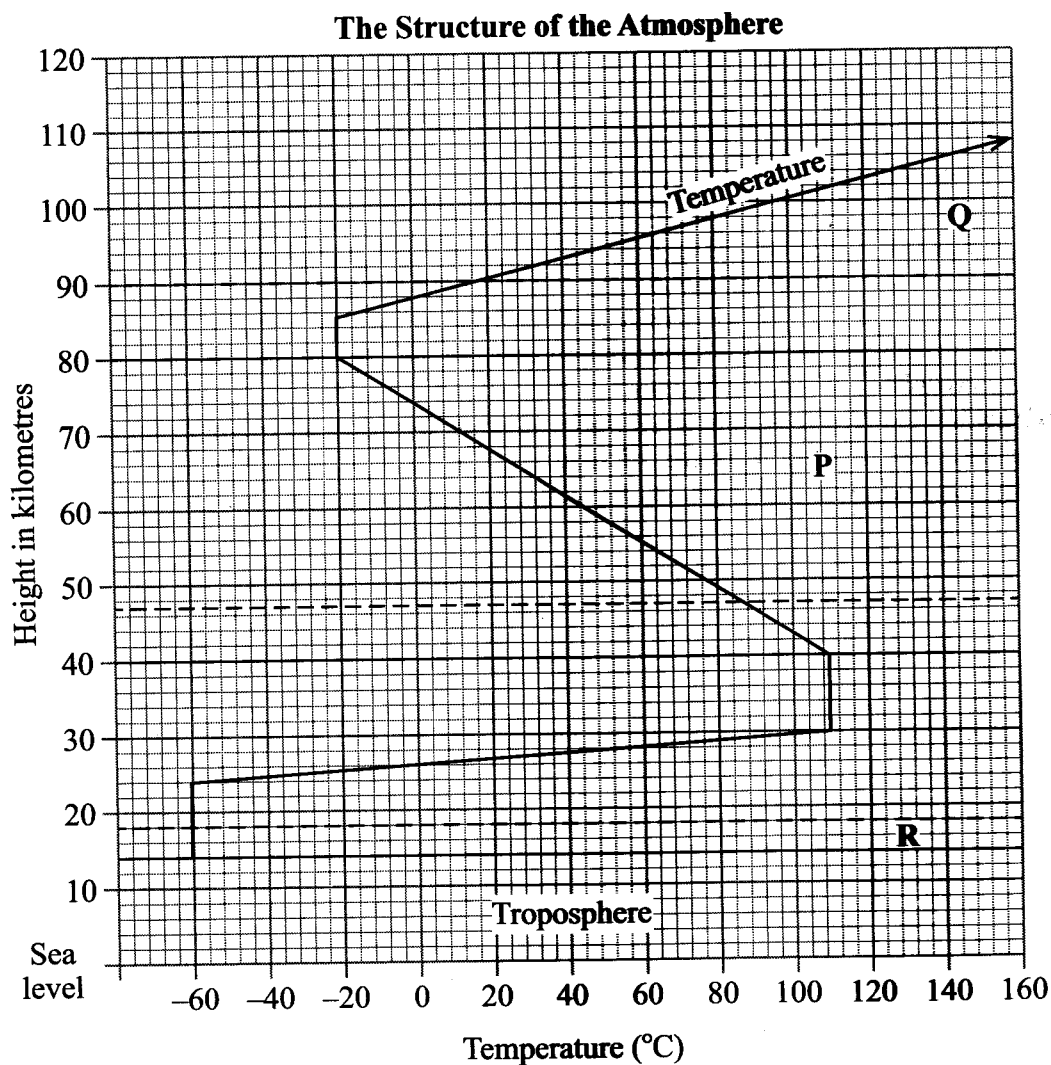
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SECTION A

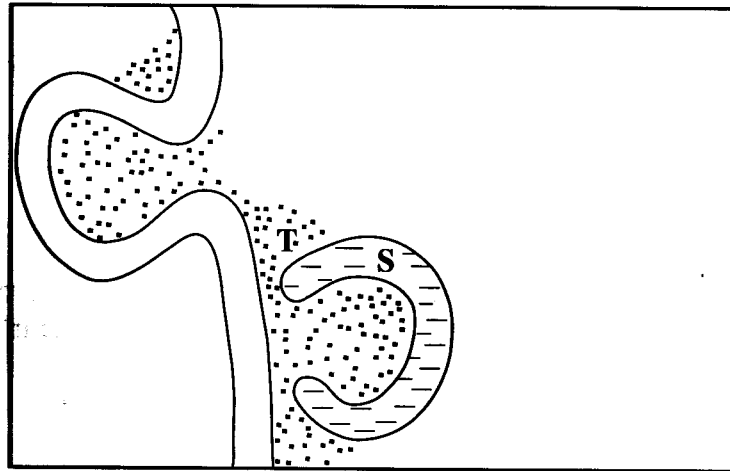
Answer **ALL** the questions in this section.

- 1 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 the weather conditions in the troposphere. (2 marks)

- 2 State **five** factors that influence mass wasting. (5 marks)
- 3 The diagram **below** shows a section of a river. Use it to answer the questions that follow.



- (a) Name the **features** marked S and T. (2 marks)
- (b) State **three conditions** that are necessary for the formation of the feature marked S. (3 marks)
- 4 (a) What is the **difference** between an ice sheet and an iceberg? (2 marks)
- (b) Name **three types of** glacial moraines. (3 marks)
- 5 (a) Give **two types of** soil degeneration. (2 marks)
- (b) State **three economic** benefits of soils. (3 marks)

SECTION B

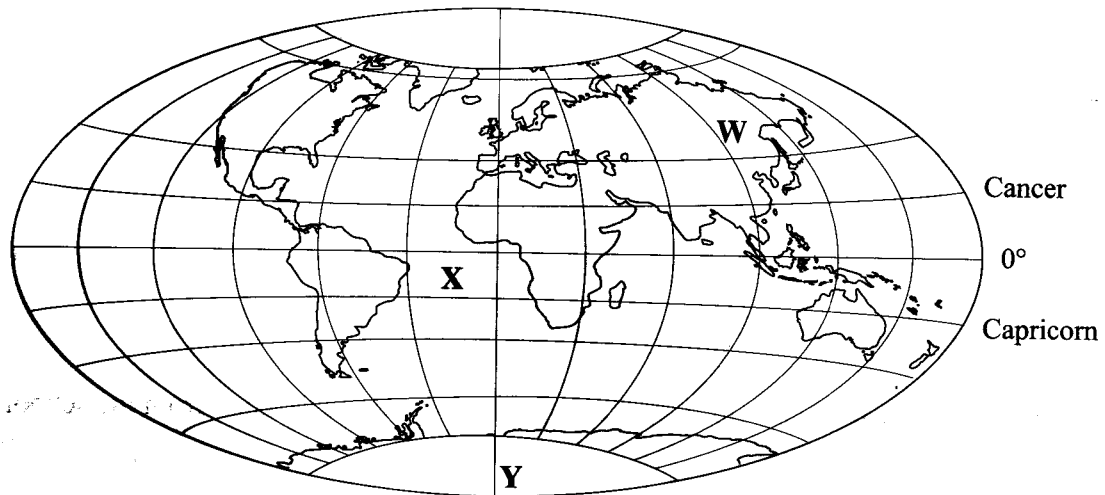
Answer question 6 and any other TWO questions from this section.

- 6 Study the map of Karatina 1:50,000 (sheet 121/3) provided and answer the following questions.
- (a) (i) What is the four figure grid reference of the Technical Institute at Mathira? (2 marks)
 - (ii) What is the bearing of Mount Kenya Campus at grid reference 932568 from the cattle dip at grid reference 990529? (2 marks)
 - (iii) Measure the distance of the railway line from the Level Crossing at grid square 8652 to the Southern edge of the map. Give your answer in kilometres. (2 marks)
 - (b) Draw a rectangle measuring 15 cm by 10 cm to represent the area enclosed by Eastings 90 and 100 and Northing 50 and 60. (1 mark)
- On the rectangle mark and name the following:
- (i) Kirinyaga District;
 - (ii) All Weather Road Bound Surface;
 - (iii) Forest;
 - (iv) Coffee factory. (4 marks)
 - (c) Describe the distribution of the natural vegetation in the area covered by the map. (6 marks)
 - (d) Identify two social functions of Karatina town. (2 marks)
 - (e) Citing evidence from the map, explain three factors that favour trading in the area covered by the map. (6 marks)
- 7
- (a) Name the first two planets of the solar system. (2 marks)
 - (b) Explain the origin of the earth according to the Nebula Cloud Theory. (8 marks)



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Use the map below to answer questions (c)(i)



(c) (i) Name:

- the continent marked W; (1 mark)
- the ocean marked X; (1 mark)
- the line of longitude marked Y. (1 mark)

(ii) Give **two** reasons why the earth has a spherical shape. (4 marks)

(iii) State **four** effects of the rotation of the earth on its axis. (4 marks)

(d) Describe the **structure** of the earth's crust. (4 marks)

8 (a) What is vulcanicity? (2 marks)

(b) (i) Apart from a **sill**, name **three** other intrusive volcanic features. (3 marks)

(ii) Describe how the following features are formed:

- a sill; (3 marks)
- hot springs; (5 marks)
- a caldera. (4 marks)

(c) Explain **four** negative effects of earthquakes. (8 marks)

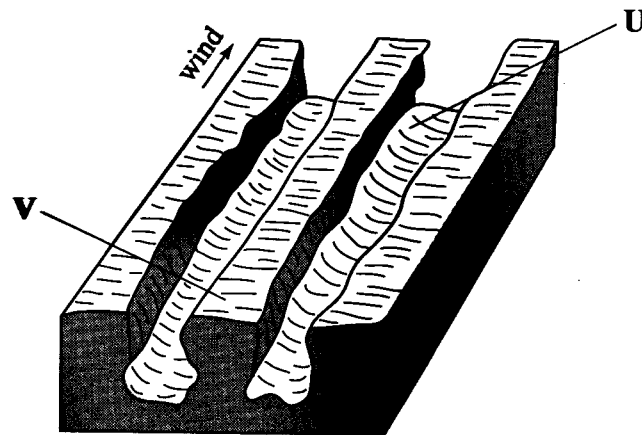


- 9 (a) What is vegetation? (2 marks)
- (b) Explain how the following factors influence the distribution of vegetation:
- (i) relief; (2 marks)
 - (ii) soils. (4 marks)
- (c) Describe the characteristics of the savanna vegetation region. (6 marks)
- (d) You are planning to carry out a field study in a forest.
- (i) Give **four** reasons why it is important to seek permission from the school administration. (4 marks)
 - (ii) List **three** sources of information you are likely to use before the actual field study. (3 marks)
 - (iii) Identify **four** challenges you are likely to encounter during the field study. (4 marks)



- 10 (a) (i) Name **two** major deserts found in Africa. (2 marks)

The diagram below represents features resulting from wind erosion in a desert. Use it to answer question a(ii).



- (ii) Name the features marked U and V. (2 marks)
- (b) Describe the **three** processes through which wind transports its load. (6 marks)
- (c) Using a **well labelled** diagram, describe how a barchan is formed. (7 marks)
- (d) Explain **four ways** in which desert features are of significance to human activities. (8 marks)

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