

Name _____ Index No. _____

Candidate's Signature _____

Date _____

312/1
GEOGRAPHY
PAPER 1
JULY / AUGUST 2014
2 ¾ HOURS

KIBWEZI DISTRICT FORM 4 INTER-SCHOOLS EXAMINATION 2014
Kenya Certificate of Secondary Education
GEOGRAPHY
PAPER 1
2 ¾ 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 questions must be written in the answer booklet provided.
- (e) This paper consists of four 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.

This paper consists of 4 printed pages

Turn Over

SECTION A

Answer all the questions in this section.

1. (a) (i) Give the two dates in a year during which the number of hours of darkness is equal in both the North and South pole. (2 marks)
(ii) Describe how the atmosphere is heated through conduction. (3 marks)
2. (a) Define hydrological cycle. (2 marks)
(b) Differentiate between infiltration and percolation. (2 marks)
(c)State one way in which the hydrological cycle is of significance. (1 mark)
3. (a) Define the term “faulting.” (2 marks)
(b) Apart from the rift valley, name three other relief features that were formed as a result of faulting. (3 marks)
4. (a) State three causes of glacial deposition. (3 marks)
(b) Name two features resulting from glacial erosion in highlands. (2 marks)
5. (a) What is natural vegetation? (2 marks)
(b) State three characteristics of the Mediterranean type of vegetation. (3 marks)

SECTION B

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

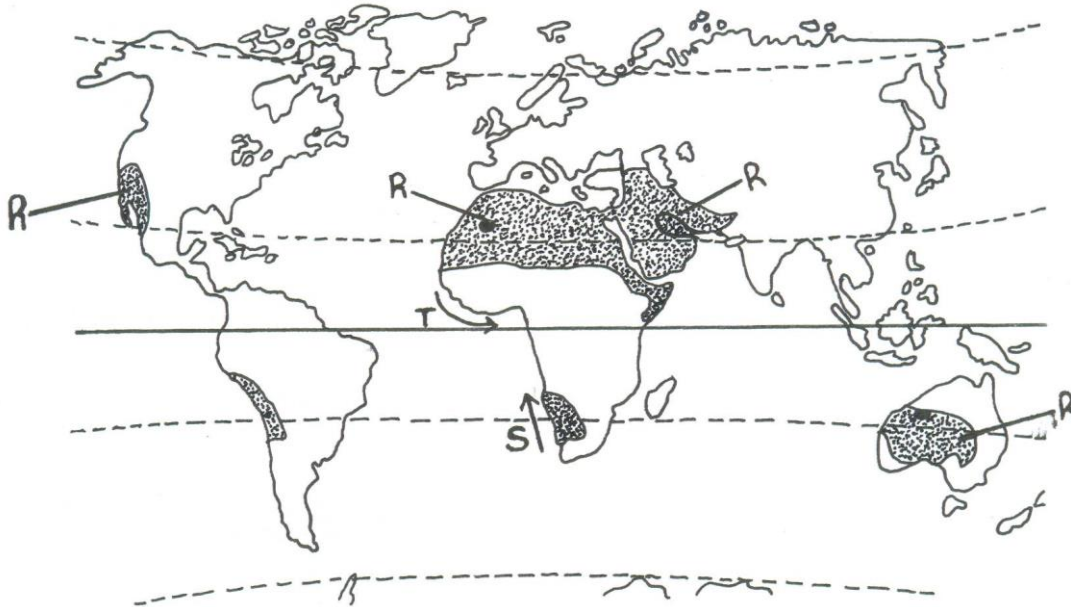
6. Study the map of Karatina 1 : 50,000 provided and answer the following questions.
 - (a) (i) Convert the ratio scale of the map extract into a statement scale. (1 mark)
(ii) Calculate the area of the forest in Kirinyaga District.
(Give your answer in km²) (2 marks)
(iii) Name the other district represented on this map extract apart from Kirinyaga. (1 mark)
 - (b) Explain three factors that have influenced settlement in the area covered by the map. (6 marks)
 - (c) (i)Enlarge the part of the map bounded by the Eastings 83 and 86 and Northings 45 and 47 by a scale factor of 2. On the enlarged map mark and label(4 marks)
 - (i) Forest
 - (ii) River Sagana
 - (iii) Church
(ii) Describe the relief of the area covered by the map. (5 marks)
 - (d) (i) Citing evidence from the map, give two reasons why the area covered by the map is suitable for coffee growing. (4 marks)

- (ii) A part from agriculture, name two other economic activities carried out in the area covered by the map. (2 marks)

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7. Use the map below to answer questions (a) and (b).



- (a) Name:
- The type of climate found in the shaded area marked R. (1 mark)
 - Name the ocean currents marked S and T. (2 marks)
 - Describe the influence of current T to the surrounding area. (3 marks)
- (c) Describe the characteristic of the type of climate found in the shaded area marked R. (8 marks)
- (d) Explain how the following factors influence climate.
- Configuration of the coastline. (4 marks)
 - Development of urban centres. (2 marks)
- (e) You are required to carry out a field study to determine the relationship between climate and vegetation in your district.
- Give two reasons why sampling would be appropriate for this field study. (2 marks)
 - State three methods you would use to record data during the field study. (3 marks)
8. (a) Name two types of sub-merged highland coasts. (2 marks)
- (b) Explain how the following factors determine the effectiveness of wave transportation along a coast.
- Nature of materials transported by waves. (2 marks)

- (ii) Nature of the coastline. (2 marks)
- (c) Describe three process involved in wave erosion. (6 marks)
- (d) (i) State four conditions that favour the growth of coral. (4 marks)
- (ii) Explain two ways in which coral contribute to the economic development in Kenya. (4 marks)

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- (e) You are planning to carry out a field study on the depositional features along the coast of Kenya.
- (i) State three objectives you would formulate for your study. (3 marks)
- (ii) State two activities you would carry out during the field study. (2 marks)
9. (a) (i) Describe how lava-dammed lake are formed. (4 marks)
- (ii) Explain how lakes influence the climate of the surrounding areas. (6 marks)
- (b) Explain why some lakes in the rift valley of Kenya have fresh water. (4 marks)
- (c) State five economic uses of lakes. (5 marks)
- (d) Explain ways in which human activities have affected lakes negatively in Kenya. (6 marks)
10. (a) Explain how the following factors influence the existence of groundwater.
- (i) Slope. (2 marks)
- (ii) Level of saturation of the ground. (2 marks)
- (b) State three sources of underground water. (3 marks)
- (c) (i) State three conditions necessary for the development of a karst landscape. (3 marks)
- (ii) Name two surface features that form in limestone areas. (2 marks)
- (iii) Describe how a limestone pillar is formed. (7 marks)
- (c) Explain three ways in which limestone landscapes influence human activities. (6 marks)

ANSWERS:

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