312/1
GEOGRAPHY
PAPER 1
JULY/ AUGUST 2013
TIME: 2¾/HRS

KI KUYU DISTRICT INTERSCHOOLS EVALUATION
KENY A CERTIFICATE OF SECONDARY EDUCATION

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GEOGRAPHY
PAPER 1
TIME: 2¾/HRS

Instructions to candidates

(a) This paper has two sections: A and B.
(b) Answer all the questions in section A. In section B, answer question six and any other two questions.
SECTION A
Answer all the questions in this section

1. (a) Give the date in the year when the sun is overhead at noon over.
   (i) the tropic of cancer
   (ii) the tropic of capricon
   (2 marks)

   (b) Differentiate between local time and standard time.
   (2 marks)

2. (a) State two ways by which the earth’s atmosphere is heated.
   (2 marks)

   (b) State three factors that influence the atmospheric pressure on the earth’s surface.
   (3 marks)

3. (a) State the three ways in which a caldera may be formed.
   (3 marks)

   (b) What are the proofs that support the continental drift theory.
   (3 marks)

4. (a) Name two main causes of tides.
   (2 marks)

   (b) State any three factors that influence wave deposition.
   (3 marks)

5. The diagram below shows the mountain vegetation. Use it to answer the questions that follow.

   (a) Name the vegetation zones marked A, B and C.
   (3 marks)

   (b) List two topographical factors influencing vegetation distribution in Kenya.
   (2 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 question.

(a) (i) What is the bearing of the junction at point N (416201) from point M (345142)? (2 marks)

(ii) Give the latitudinal and longitudinal position of the junction at point N. (2 marks)

(iii) What is the altitude of the highest point in the area covered by the map? (2 marks)

(b) (i) What is the area of Kitale municipality? (2 marks)

(ii) Name three districts covered by the provincial boundary. (3 marks)

(c) (i) Reduce by half the region between easting 23 and 35 and northings 16 and 23. (2 marks)

On it mark and name
(i) River Koitobus
(ii) Tree swamp
(iii) All weather road loose surface B 10/2

(d) From the map identify the factors that favour plantation/estate farming in the area. (4 marks)

(e) Describe the distribution of settlement in the area covered by the map. (5 marks)

7. Below is a map of Africa representing climatic regions. Use it to answer the questions that follow.

(a) (i) Identify the labelled climatic regions. (3 marks)

(ii) Describe the climatic characteristics of
- Region marked A (6 marks)
- Region marked C. (4 marks)
(b) Identify **four** factors that influence climate on the surface of the earth. (4 marks)

(c) How has the savannah vegetation adapted to the climatic conditions it experiences? (5 marks)

(d) Your class is required to carry out a field study on the climate in Kikuyu area. 
State **three** importance of preparing a work schedule. (3 marks)

8. (a) (i) Give **three** reasons why wind action is more effective in hot deserts. (3 marks)

(ii) Explain any **two** processes of wind erosion in deserts. (4 marks)

(b) Using diagrams describe how the following features are formed in hot deserts.
(i) Barchans (6 marks)
(ii) Zeugens (5 marks)

(c) List down any **three** features resulting from the action of water in arid regions. (3 marks)

(d) Explain any **two** negative effects of desert features to the physical and human environment. (4 marks)

9. (a) (i) What is a glacier. (2 marks)

(ii) Explain **three** ways in which a glacier moves. (6 marks)

(b) Describe how the following glacial deposition features are formed.
(i) Eskers (3 marks)
(ii) Drumlins (3 marks)

(c) You have been asked to carry out a field study on land use in a glaciated lowland.
(i) State **two** preparations you would make for your field study. (2 marks)

(ii) State **three** possible land uses you are likely to identify during the field study. (3 marks)

(d) Explain **three** significance of upland glaciated features to human activities. (6 marks)

10. (a) (i) Give **three** sources of underground water. (3 marks)

(ii) Identify **three** ways in which springs may occur. (3 marks)

(b) With the aid of a well labelled diagram show the three zones of underground water. (6 marks)

(c) State the conditions favouring the location of an artesian well. (4 marks)

(d) (i) Name any **three** surface features in limestone areas. (3 marks)

(ii) Explain **three** significance of underground water to human activities. (6 marks)