

Name .....

Index Number ..... / .....

Candidate's Signature .....

Date .....

312/1

GEOGRAPHY

PAPER 1

JULY/ AUGUST 2013

TIME: 2<sup>3</sup>/<sub>4</sub>HRS

**KIKUYU DISTRICT INTERSCHOOLS EVALUATION**  
**KENYA CERTIFICATE OF SECONDARY EDUCATION**

312/1

GEOGRAPHY

PAPER 1

TIME: 2<sup>3</sup>/<sub>4</sub>HRS

**Instructions to candidates**

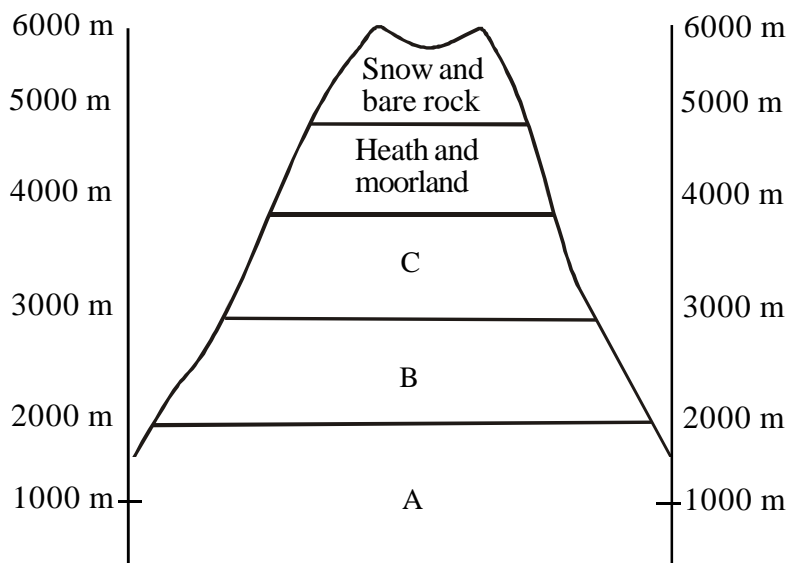
- (a) This paper has **two** sections: **A** and **B**.
- (b) Answer all the questions in section **A**. In section **B**, answer question six and any other two questions.

## 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 capricorn

(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.



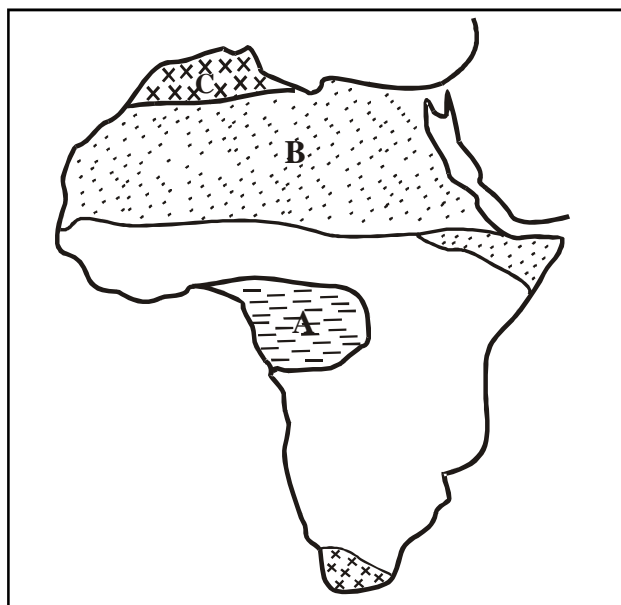
- (a) Name the vegetation zones marked A, B and C. (3 marks)
- (b) List **two** topographical factors influencing vegetation distribution in Kenya. (2 marks)

## 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. (4marks)
- (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)