Name **Index No.**

Candidate's Signature
Date .....

312/1
GEOGRAPHY
Paper 1
July/August 2013
Time: $2^{3}/_{4}$ Hours

WESTLANDS DISTRICT MOCK EXAMINATION

Kenya Certificate of Secondary Education

GEOGRAPHY
Paper 1
July/August 2013
Time: $2^{3}/$, Hours

INSTRUCTIONS TO **CANDIDATES**

* ■ This paper contains two sections; A and B
* Answer all the questions in section A.
* In section B answer questiȯṅ 6 and any other two questions.
* ALL answers must be written in the answer sheets provided.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and no questions are missing.

SECTION A:
Answer all questions in this section.

1. a) What is environment? (2 mks)

   b) State three characteristics of the troposhere (3mks)

2. a) State two conditions considered in choosing a suitable site for a weather station, (2 mks)

   b) Give the effects of the following forces on the shape of the earth. (2 mks)

   i) CentifLigal force

   ii) Centripetal force

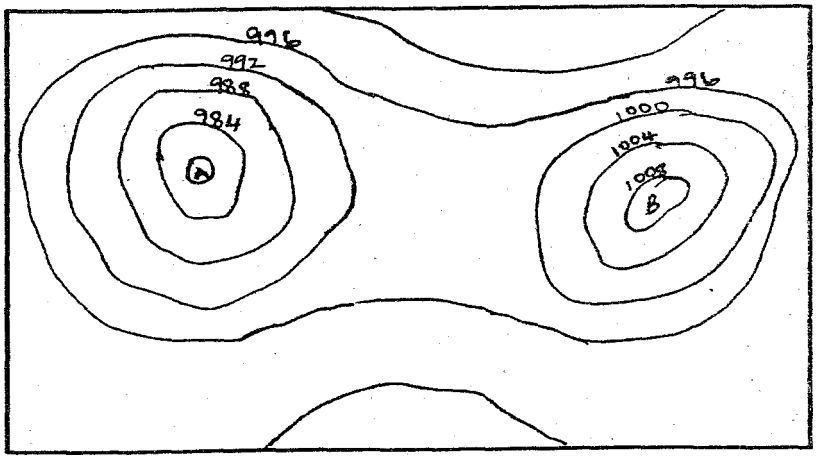
3. a) State how gravitative force causes earth movement. (2 mks)

   b) Apart from the gravitative force, name two other causes of earth movements (2 mks)

4. a) Name two types of deltas (2 mks)

   b) State three conditions necessary for formation of a delta. (3 mks)

   c) Give three conditions necessary for the formation of an artesian wells. (3 mks)



The diagram above represents atmospheric pressure cells in the northern hemisphere. Use it to answer question (a)andfb)

   a) Name pressure cells marked A,B (2 mks)

   b) State two weather conditions resulting from the pressure cel 1 marked B (2 mks)

SECTION B:
Answer question 6 and any other two
Study the map of Kitale 1:50,000 sheet 75/3 and answer the questions that follow

6. a) i) What is the longitudinal extent of the map (1 mk)

   ii) What is the magnetic variation of the map? (Imk)

   b) i) What is the bearing and direction of the air photo principal point at grid reference 2921 from the secondary tngdnometricaistation at grid square 2823 (2 mks)

   ii) Calculate the area of Kapolet forest. (2 mks)

   iii) Measure th,, length ofthe all weather loose surface road C 641 from the junction of grid square 3121 to the junction on grid square 2413. Give your answer in kilometres and metres. . (2 mks)

   c) i) Reduce the area that lies between eastings 30 and 40 and northing 20 and 30 by half (2 mks)

   ii) On reduced area indicatae
   - The dry weather road c 642 (1 mk)
   - Kipsain police post (1 mk)
   - River Saiwa (Imk)

ii) State the new scale of the reduced area (Imk)

d) Name three types of natural vegetation shown on the area covered by the map. (3 mks)

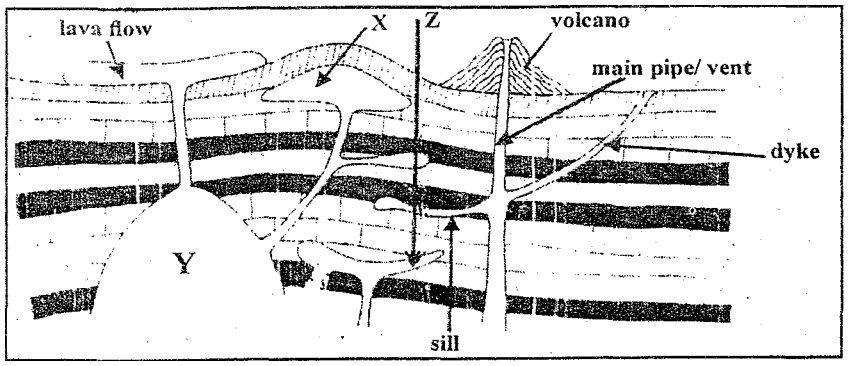
e) Explain three factors that influence settlements on the area covered by the map. (6 mks)

f) Citing evidence, state two economic activities carried out in the area.covered by the map. (2 mks)

7. a) i) Differentiate between volcanicity and vulcanicity. ■ - (2 mks)

ii) State two causes of vulcanicity. (2 mks)

b) The diagram below shows some intrusive features formed by vulcanicity. Use it to answer the questions that follow.



i) Name the features marked (3 mks)
X
Y
Z

ii) Differentiate between a dyke and a sill. (2 mks)

c) i) State three characteristics of basic Lava dome/ shield volcano, (3 mks)

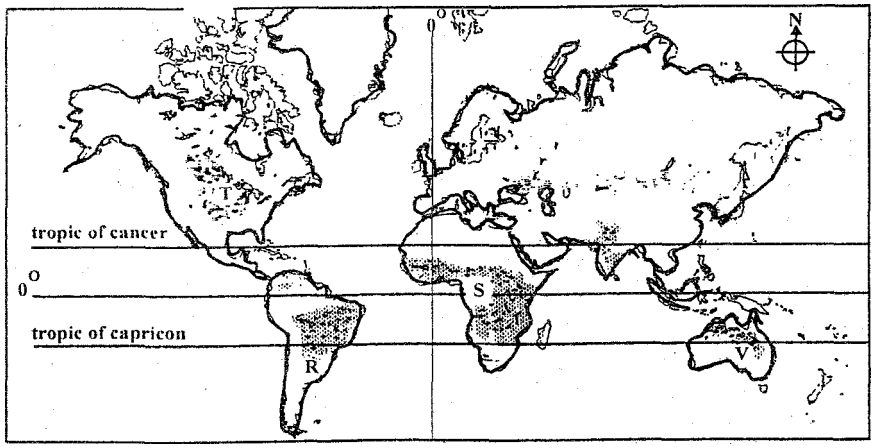
ii) With the aid of a well labelled diagram describe how a composite volcano is formed. (5 mks)

d) Explain four ways in which volcanic mountain positively influences human activities. (8 mks)

a) i) Name two types of vegetation (2 mks)

ii) Explain how the following factors influgjice the distribution ofNatural vegetation.
-Altitude (Imk)
-Typeof soils (1 mk)

b) The map below shows the distribution of some natural vegetation in the world. Use it to answer the questions that follow.



i) Name the grasslands marked (4 mks)
R
S
T
V

ii) State five characteristics of tropical desert vegetation (5 mks)

iii) Explain four ways in which coniferous vegetation has adopted to the environmental condition. (8mks)

. c) You are required to carry out a field study of vegetation within the local environment.

d) i) State two activities you will carry out during the field study. (2 mks)

ii) Give two ways through which you will identify the different types of plants. (2 mks)

9. a i) Name two processes of wind erosion in desert. (2 mks)

ii) Explain two reason why action of wind is more effectivein the hot desert. (4 mks)

iii) With the aid of well-labelled diagrams, describe how a zeugen is formed. (6 mks)

b) State three ways in which wind transport materials in desert. (3 mks)

c) i) Explain three factors that influence wind deposition in desert, (6 mks)

ii) State two characteristics of a barchan. (2 mks)

d) Identify two features formed as a result of water action in desert. (2 mks)

10. a) Define the following terms:

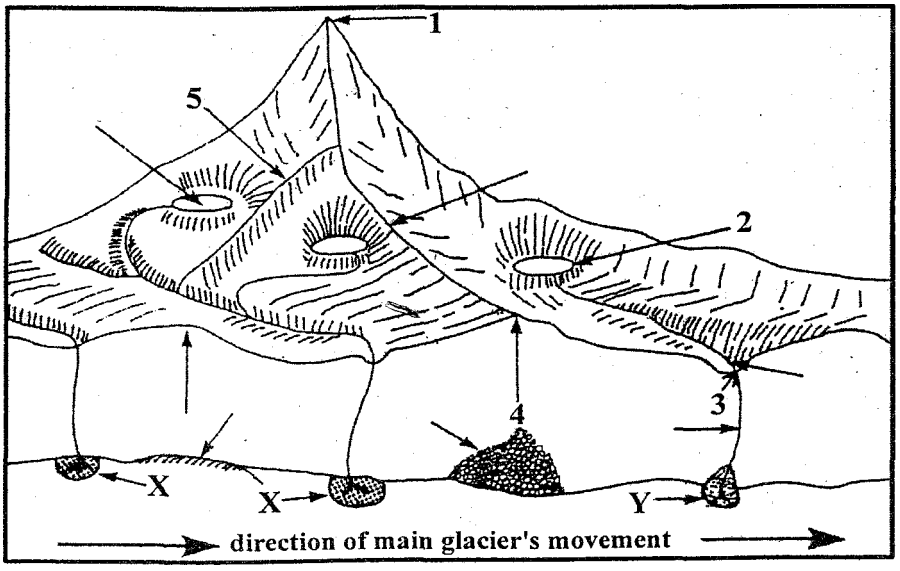
i) Glaciation (Imk)

ii) Snowline (Imk)

iii) Ground moraine (Imk)

b) Identify three factors which influence glacial erosion. (3 mks)

c) Use the diagram below to answer the questions that follow.



Identify the features marked 1,2,3,4,5 (5 mks)

d) Students from your class are intending to carry out a field study on a glaciated highland area,

i) Give three reasons why it was necessary for them to conduct a reconnaissance. (3 mks)

ii) Identify three methods of data recording they might use. (3 mks)

iii) Suggest three possible problems they are likely to experience. (3 mks)

iv) State five economic value of glaciation to man? (5 mks)