

NAME:.....INDEXDATE.....

SCHOOL:.....SIGNATURE.....

312/1
GEOGRAPHY
PAPER 1
JULY / AUGUST 2010
TIME: 2 $\frac{3}{4}$ HOURS.

JOINT INTER-SCHOOLS EVALUATION TEST (JISSET) Kenya Certificate of Secondary Education 2010

312/1
GEOGRAPHY
PAPER 1
2 $\frac{3}{4}$ HOURS

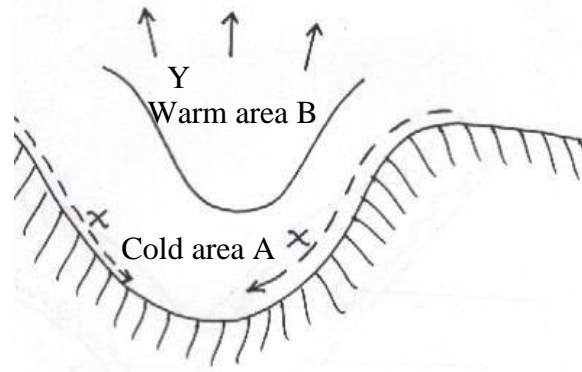
INSTRUCTIONS TO CANDIDATES.

- ❖ *This paper consists of two sections A and B*
- ❖ *Answer ALL the questions in section A, in section B, answer question 6 and any other two questions*
- ❖ *All answers must be written in the answer sheets provided*

This paper consists of 4 printed pages. Candidates must check the question paper to ensure that all pages are printed as indicated and no questions are missing

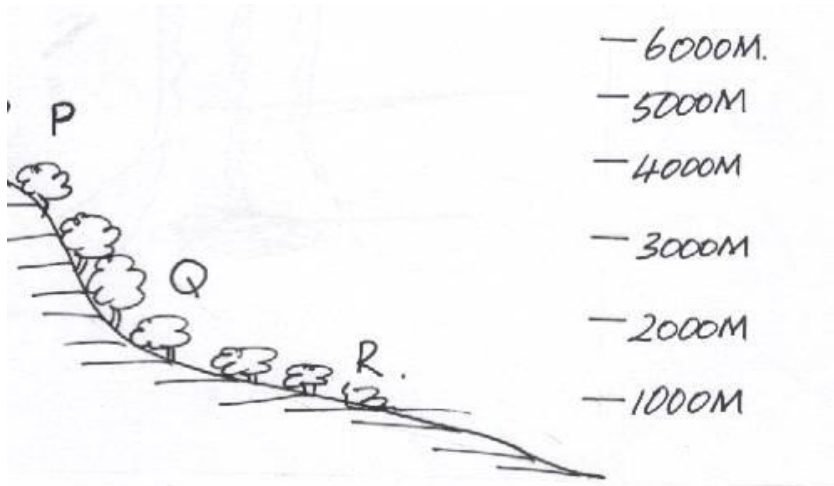
SECTION A Answer all the questions in this section

1. a) **State two** characteristics of the sun (2marks)
 b) **Outline three** forces that have influenced the shape of the earth. (3marks)
2. The diagram below shows a typical example of micro-climate in a mountainous region.



Valley in the mountain

- a) Name the winds marked X and Y. (2marks)
- b) Give reasons why the area marked B is warmer than the area marked A. (2marks)
3. The diagram below shows vegetation transition zones on a mountain slope



- a) Name the vegetation type labelled P and Q. (2marks)
- b) State three common characteristics of the vegetation labelled R (3marks)
4. a) Give the difference between a fault-scarp and a fault-plane. (1mark)
- b) Outline the positive ways through which faulted landscapes influence economic activities in Kenya. (4marks)

5. Use the table below to answer questions (a) and (b)

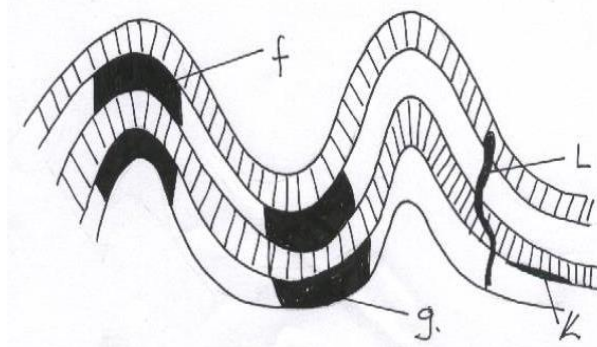
Month	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Temp.	27°C	27°C	28°C	28°C	25°C	25°C	24°C	25°C	28°C	28°C	27°C	27°C
Rainfall	60mm	65 mm	150mm	200 mm	100 mm	100 mm	90 mm	80 mm	100mm	164 mm	100mm	80mm

- a) What is the annual rainfall range (1mark)
- b) Briefly explain the characteristics of the climate experienced at this station (5marks)

SECTION B Answer question 6 and any other two questions from this section

6. Study the map of Belgut sheet 117/3 and answer the questions that follow
- a) (i) State the longitudinal extent of the map (1mark)
 - (ii) What is the grid reference of the school near Murambasi? (2marks)
 - (iii) State the physical features in the grid square 3748 (3marks)
 - b) (i) What is the length of the road C 23 east of Easting 46 in kilometers. (2marks)
 - (ii) What is the area of Kisii district? (2marks)
 - c) (i) Draw a rectangle measuring 10cm by 14cm to represent the area on the map east of Easting 40 and on it show
 - Road C 23
 - Papyrus swamp
 - Tea plantation
 - Trigonometrically station No. 117513. (6marks)
 - (ii) Describe the relief west of Easting 30. (4marks)
 - d) (i) Name the adjoining sheets west of Belgut map sheet. (3marks)
 - (ii) State the units of measurement on the Belgut map. (2marks)

7. a) (i) What is volcanicity? (2marks)
- (ii) State two solid materials that are common during extrusive eruption. (2marks)
- b) (i) Give the differences between Sulphatara and Moffete eruption. (2marks)
- (ii) Using a well labeled diagram, explain the formation of a lava plateau. (9marks)
- c) The diagram below shows some of the volcanic features in folded rocks.



- (i) Name the features labeled f, g, l and k (4marks)
- (ii) Explain the economic importance of volcanic rocks in Kenya. (6marks)
8. a) (i) State the difference between Regolith and Talus scree (3marks)
- (ii) Outline three factors that influence weathering of rocks in Kenyan highlands. (3marks)
- b) (i) Explain three physical processes that may lead to breakdown of rocks. (9marks)

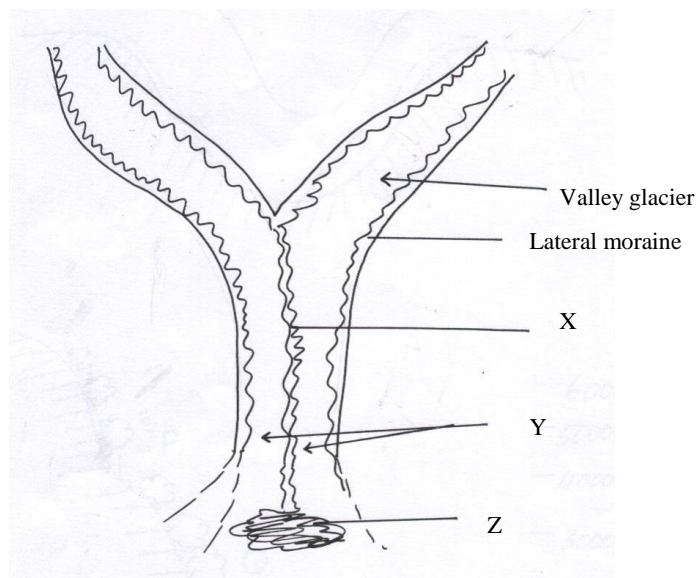
- (ii) State three ways how rainfall may contribute to the decay of rocks (3marks)
- (iii) Name two features which result from weathering. (2marks)

c) Outline the significance of weathering to:

- (i) Farming (3marks)
- (ii) Mining (2marks)

9. a) (i) State four factors which influence wind transport (4marks)
- (ii) Explain the processes of wind erosion. (6marks)
- b) Using a well labelled diagram, explain how a mushroom rock block is formed. (5marks)
- c) (i) Give factors which influence the formation of salt pan in deserts. (4marks)
- (ii) Explain how desert features hinder human activities (6 marks)

10. The diagram below shows features in a glaciated landscape



- a) (i) Name the feature marked X, Y and Z. (3marks)
- (ii) State the difference between the Rock montanees and Crag and Tail. (2marks)
- b) (i) Name two types of lakes formed in the glaciated lowland. (2marks)
- (ii) Explain how a waterfall is formed in a glaciated highland. (6marks)
- c) (i) Name three features which are formed by glacial erosion on Mt. Kenya. (3marks)
- (ii) Explain how a glaciated trough can influence human economic activities. (4marks)
- d) Students carried out a field study on Mt. Kenya on glacial features.
- (i) State two of their assumptions. (2marks)
- (ii) Name two methods they used to collect data while in the field. (2marks)
- (iii) State two main problems they experienced while in the field. (2marks)