

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

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

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GEOGRAPHY

Paper 1

July / August 2010

Time: 2¾ hours

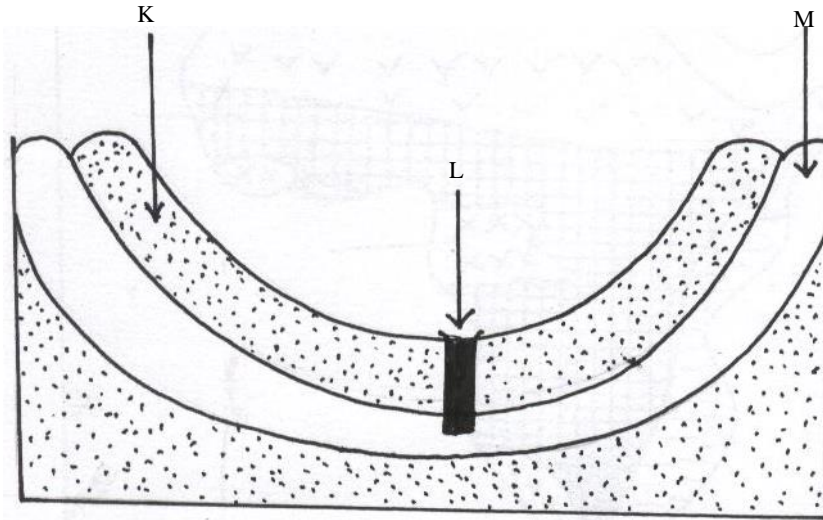
KISUMU NORTH AND EAST DISTRICTS JOINT TEST
Kenya Certificate of Secondary Education (K.C.S.E)

INSTRUCTIONS TO CANDIDATES:

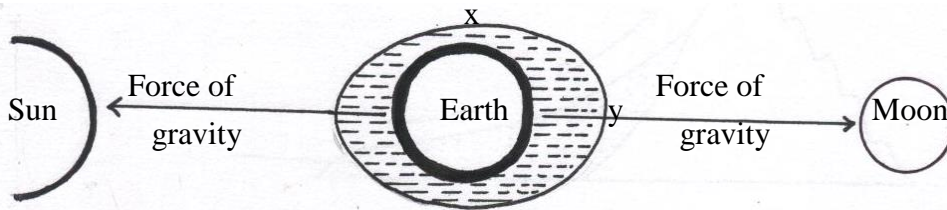
- ❖ *Write your name, index numbers and the name of your school in the spaces provided above.*
- ❖ *This paper consists of two sections, A and B.*
- ❖ *Answer all the questions in section A. In section B, answer question 6 and any two other questions.*
- ❖ *All answers must be written on the answer sheets provided.*

SECTION A Instructions:-Answer all the questions in the answer sheet provided.

1. a) State two characteristics of equinoxes. (2mrks)
 b) State three effects of the revolution of the earth. (3mrks)
2. a) Give two examples of lava plateaus in Kenya. (2mrks)
 b) Describe how a crater is formed. (3mrks)
3. a) Define epicenter. (2mrks)
 b) State three human factors that influence earthquakes. (3mrks)
4. a) State two ways in which springs are formed. (2mrks)
 b) The diagram below represents an artesian basin. Name the parts marked K.L.M. (3mrks)



5. a) State three factors that influence the temperature of ocean water. (3mrks)
 b) The diagram below shows the occurrence of tides. Name the parts marked X and Y. (2mrks)



SECTION B Answer question 6 and any other two in this section.

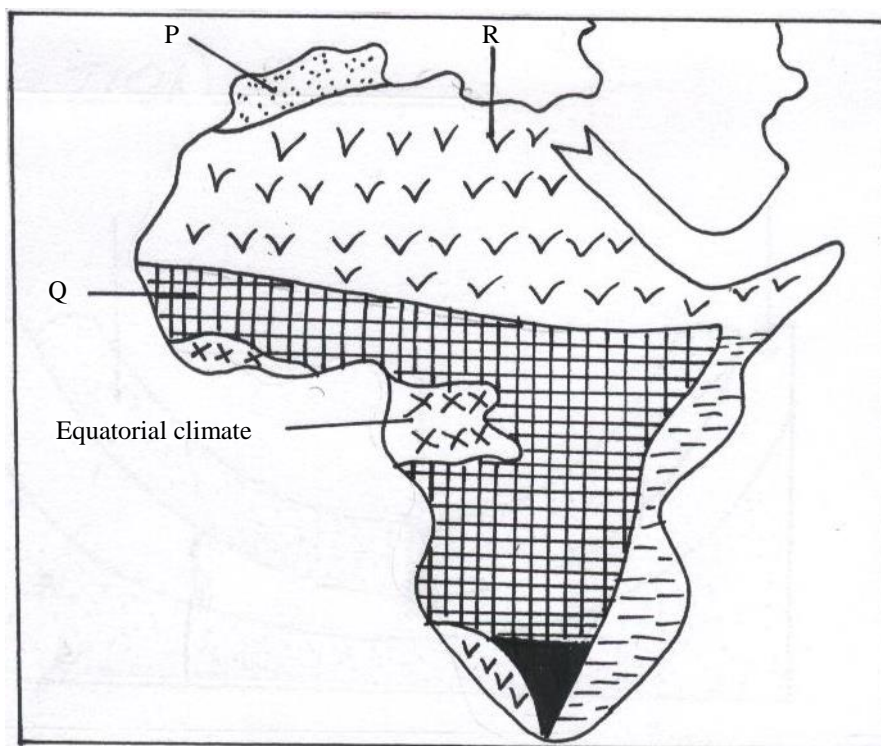
6. Study the map of Belgut 1:50,000 (sheet 117/3) provided, and answer the following questions.
 - a) (i) Identify three relief features in grid square 2952 (3mrks)
 (ii) Give the direction of the trigonometrical station (other pillar) in GS grid square 3658 from the air photo principal point in grid square 3456 (1mrk)
 - b) (i) State the longitudinal extent of the map. (2mrks)
 (ii) Calculate the area of the region south of northing 50 and East of the all weather road (bound surface. Give your answer in Km² (2mrks)
 (iii) Name three types of vegetation found in the area covered by the map. (3mrks)
 (iv) Identify two settlement patterns in the area covered by the map. (2mrks)
 - c) (i) Draw a cross section between grid reference 400540 and 460540. Use a vertical scale of 1cm represents 20meters. (4mrks)

- (ii) Along the line of section, mark and name the following features.
- Papyrus swamp. (1mrk)
 - Riverine trees. (1mrk)
- (iii) Calculate vertical exaggeration of the cross-section. (2mrks)
- d) Describe the drainage of the area covered by the map (4mrks)
7. a) Explain how the following factors influence climate.
- (i) Latitudes (2mrks)
 - (ii) Distance from the sea (2mrks)
- b) The table below shows temperatures reading at a weather station.

Day	MON.	TUE.	WED.	THUR.	FRI.	SAT.	SUN
Max °c	26	25	26	24	27	27	24
Min. °c	15	17	17	13	19	18	17

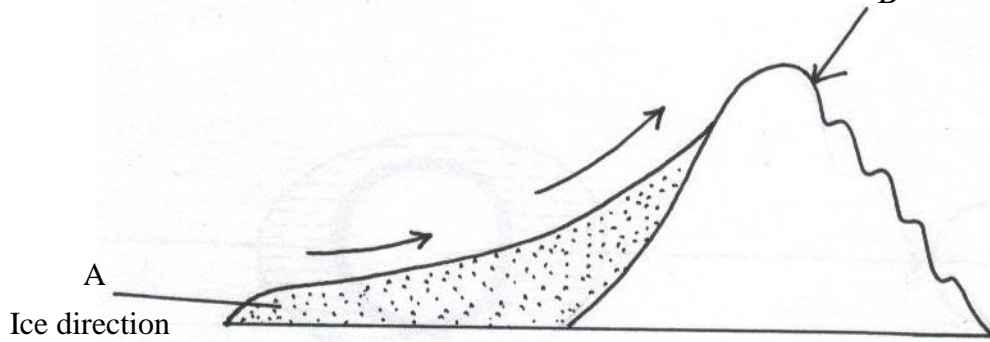
Calculate:

- (i) The daily range of temperature for Monday. (2mrks)
 - (ii) The mean temperature for Friday. (2mrks)
- c) Study the climate map of Africa below and answer the questions that follow.



- (i) Name the climatic regions marked P, Q and R. (3mrks)
 - (ii) Describe the characteristics of equatorial climate. (8mrks)
 - (iii) Explain three ways in which vegetation adapts to the climatic region marked R. (6mrks)
8. a) (i) What is piedmont glacier? (2mrks)
- (ii) State two conditions that favour formation of glaciers. (2mrks)
- b) Explain the following ways of ice movement.
- (i) Basal slip. (2mrks)
 - (ii) Plastic flowage. (2mrks)

- c) Explain two factors that determine the speed of ice movement. (4mrks)
 d) Study the diagram below and answer the following questions.



- (i) Name the parts marked A and B. (2mrks)
 (ii) State two characteristics of the feature above. (3mrks)
 (iii) Give three features of glacial deposition. (3mrks)
 (iv) State five positive effects of glaciations. (5mrks)
9. a) (i) What is a lake? (2mrks)
 (ii) State three factors that determine the permanency of a lake. (3mrks)
 b) Describe how lake Kanyaboli was formed. (6mrks)
 c) Explain four causes of salinity of lake Magadi. (8mrks)
 d) Explain three negative effects of lakes on human activities. (6mrks)
10. a) State three types of hot deserts. (3mrks)
 b) Explain two process of wind erosion. (4mrks)
 c) Using well labeled diagrams describe how a Yardang is formed. (7mrks)
11. d) You intend to carry out a field study on desert landforms.
 (i) Formulate two hypotheses for your study. (2mrks)
 (ii) State three methods of recording data that you would use. (3mrks)
 e) Explain three economic importances of desert landforms to human activities. (6mrks)