

312/1

GEOGRAPHY

Paper 1

July / August, 2012

Time: 2Hours 45 Minutes Hours

**LOITOKITOK DISTRICT JOINT EVALUATION TEST - 2012**

*Kenya Certificate of Secondary Education (K.C.S.E)*

312/1

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**INSTRUCTIONS TO CANDIDATES**

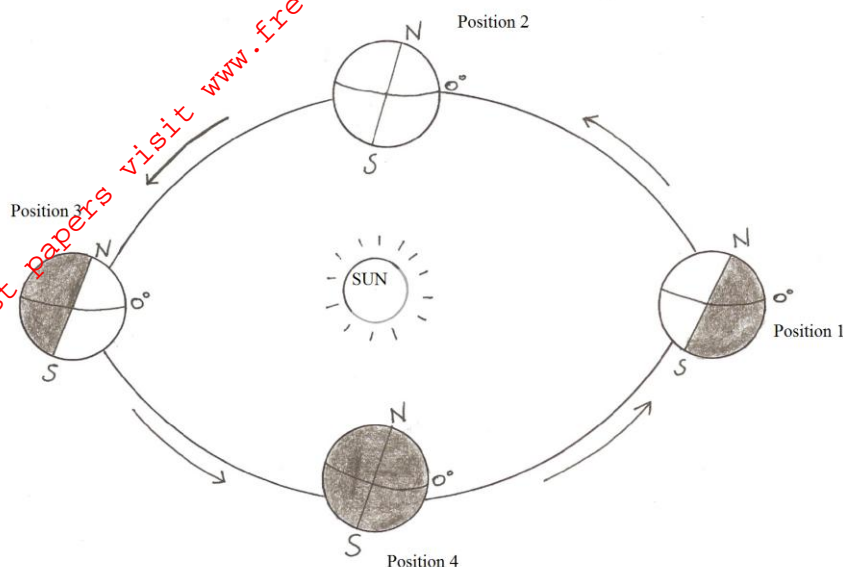
- (a) This paper has two sections A and B
- (b) Answer all questions in section A
- (c) In section B answer question 6 and any two other questions
- (d) All answers must be written in the answer sheets provided.

*This paper consists of 4 printed pages. Candidates should check the question paper to ascertain that all pages are Printed as indicated and that no question is missing*

## SECTION A

Answer all the questions in this section.

1. (a) State two effects of the rotation of the earth (2mks)
- (b) Study the diagram below and answer the questions that follow

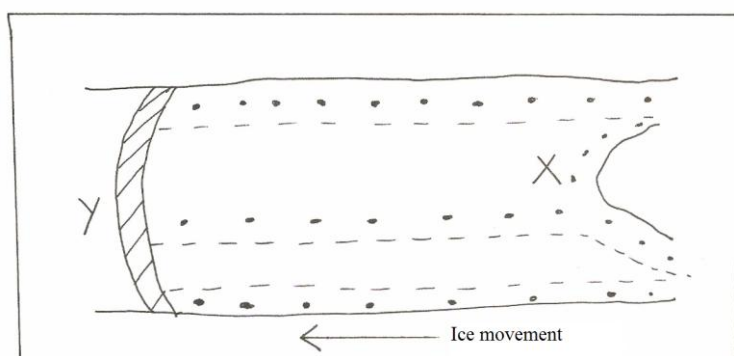


- (c) Which movement of the earth is represented by the diagram (1mk)
- (d) Give two effects of the movement represented by the diagram (2mks)
2. (a) What is a metamorphic rock? (2mks)
- (b) Complete the table below (3mks)

Original rock	Through metamorphism changes to:
clay	
sandstone	
limestone	

3. (a) Name 2 major types of earth movement that occurs within the earth crust (2mks)
- (b) State 3 ways in which the earth's crust is affected by earthquakes (3mks)
4. (a) Name the three classes of soils based on historical development (3mks)
- (b) What is soil pH? (2mks)

5. Use the diagram below to answer question (a) and (b)



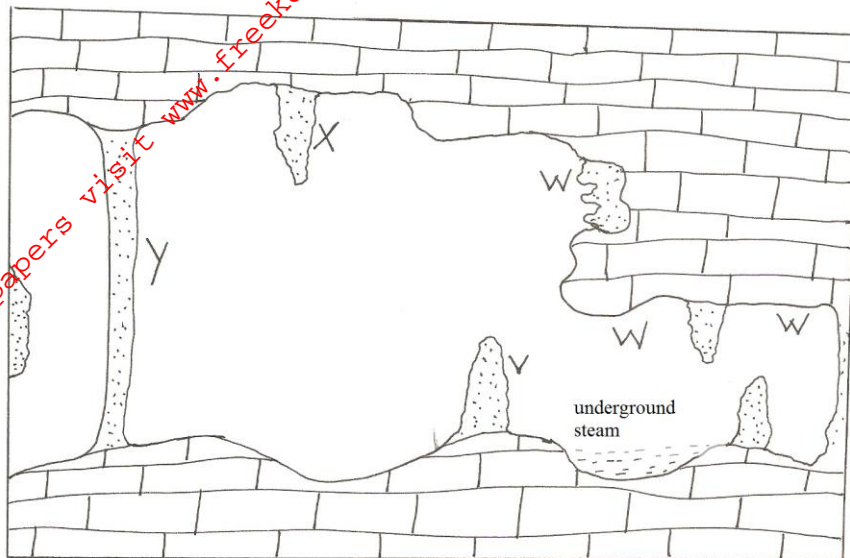
- (a) Name the type of movement marked X and Y (2mks)  
 (b) Explain how the moraine marked Y is formed (3mks)

## SECTION B

**Answer Question 6 and any two other questions from this section)**

6. Study the map of Nkubu (1:50000) sheet 122/1 provided and answer the following questions
- (a) Name two man-made features found in grid square 5886. (2mks)  
 (b) (i) Describe the distribution of the population at the area enclosed by Easting 56 and 60 and to the South of northing 90. (2mks)  
 (ii) State three factors that are likely to have influenced the distribution of the population of the area covered by the map (3mks)  
 (c) (i) What was the direction of the school at Mutiokarina from the trigonometrical station at the grid square 5689? (2mks)  
 (ii) Citing evidence from the map explain four factors that may have led to the growth of Kanyakine market (8mks)  
 (d) (i) Sketch the area bordered by Eastings 40 and 45 and Northing 83 and 90 in the same length and width as it appears on the map indicating the four figure grid reference for each corner (4mks)  
 (ii) On the sketch map mark and label the following features:  
 - Thunguru hills forest (1mk)  
 - Dry weather road (1mk)  
 - Marungurune school (1mk)  
 - Kithangari church (1mk)
7. (a) Name three types of faults (3mks)  
 (b) (i) With the aid and of well-labelled diagrams, explain how tensional forces can lead to the formation of a Rift Valley (7mks)  
 (ii) Give two examples of escarpments in East African (2mks)  
 (c) Explain four ways in which features resulting from faulting are of economic importance (4mks)  
 (d) You intend to carry out a field study on the landforms resulting either near your school or somewhere else  
 (i) State two objectives of such a study (2mks)  
 (ii) State two hypotheses for the study (2mks)  
 (iii) State two methods you would use to record the information you would collect (2mks)  
 (iv) What problems are likely to be faced during such a study (3mks)
8. (a) (i) Define natural vegetation (1mk)  
 (ii) State four characteristics of natural vegetation found in tropical rain forests (4mks)  
 (b) Explain four ways in which vegetation found in arid areas adapts to environmental conditions of the region (8mks)  
 (c) Write the names of the grasslands found in the following areas (3mks)  
 (i) East Africa  
 (ii) Canada  
 (iii) Argentina  
 (d) (i) Give two reasons why Tundra region has scanty vegetation (2mks)  
 (ii) State two topographical factors that influence vegetation distribution (2mks)  
 (e) State five economic importance of vegetation (5mks)
9. (a) What is a river capture? (2mks)  
 (b) State four ways in which a river transports the load (4mks)  
 (c) Explain how each of the following factors determines the volume of run-off (2mks)  
 (i) Amount and duration of rain fall (2mks)  
 (ii) Vegetation cover (2mks)  
 (iii) Permeability of the ground (2mks)  
 (d) A form 4 geography class is planning to carry out a field study of a water fall near their school.

- (i) State nine ways in which they would prepare for the study (9mks)
- (ii) Give four methods they would use to collect information at the water fall (4mks)
10. The diagram below represents underground features in a limestone area. Use it to answer question (a)



- (a) (i) Name the features marked X, V and W (3mks)
- (ii) Describe how the feature marked Y is formed (6mks)
- (b) (i) What is an artesian basin (2mks)
- (ii) Explain 3 factors which influence the formation of features in limestone areas (6mks)
- (c) You are supposed to carry out a field study of an area eroded by water
- (i) Give 3 reasons why you would need a map of the area of study (3mks)
- (ii) Name 2 erosional features you are likely to identify during the field study (2mks)
- (iii) State three recommendations that you would make from your study to assist the local community to rehabilitate the eroded area (3mks)