

Name.....

Index No...../.....

School.....

Date .....

Candidate's Signature.....

312/1

**GEOGRAPHY**

**Paper 1**

**JULY / AUGUST 2012**

**Time: 2  $\frac{3}{4}$  HOURS**

## **KWANZA DISTRICT JOINT EVALUATION TEST - 2012**

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

### **INSTRUCTIONS TO CANDIDATES**

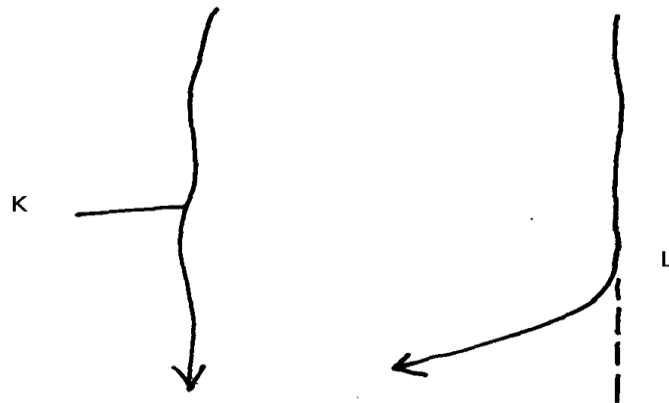
- This paper has Two sections: A and B
- Answer all the question in section A.
- In section B answer question 6 and any other two questions
- All answer must be written in the answer booklet provided

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

## SECTION A(25 marks)

Answer all the question this section.

1. (a) Name **three** transitional zone of the atmosphere (3mks)  
(b) Give **two** factors that cause variation in the radiations reaching the earth's surface (2mks)
2. (a) (i) Define an earth tremor (1mk)  
(ii) Name **two** characteristics s – waves generated by an earthquake (2mks)  
(iii) State **two** effects of earth quakes on the physical environment (2mks)
3. (a) The diagram below shows a river capture. Name the parts marked K and L (2mks)



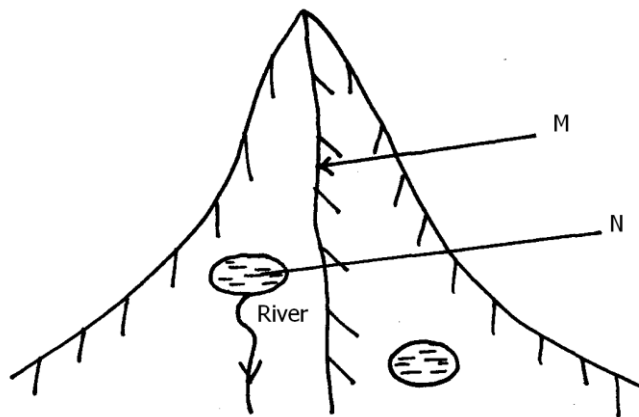
- (b) Outline **three** ways through which a gorge is formed (3mks)
4. (a) State **two** causes of vertical movement of ocean water (2mks)  
(b) Identify **three** features found on the ocean floor (3mks)
5. (a) Distinguish between mass wasting and mass movement (2mks)  
(b) Name **three** processes of chemical weathering (3mks)

## SECTION B (75 marks)

Answer question 6 and any other question from this section.

6. Study the map of NKUBU (1:50,000) sheet 122/1 provided and answer the following questions.
  - (a) (i) What feature is found at grid reference 564863? (1mk)  
(ii) What is the direction of Igadance forest (grid reference 475870) from Nkuba divisional Headquarters? (1mk)  
(iii) Name **three** human – made features found in grid square 5184. (3mks)  
(iv) What is the vertical interval of the map? (1mk)
  - (b) (i) Using a vertical scale of 1 cm to represent 50m, draw a cross section from grid reference 560980. (5mks)  
(ii) On the cross – section mark and label the following:
    - . A road
    - . A river
    - . A swamp(3mks)  
(iii) Calculate the vertical exaggeration of the cross – section. (2mks)

- (c) Citing evidence from the map explain the reason why the area is suitable for coffee farming (6mks)
- (d) Describe the relief of the area covered by the map. (3mks)
7. (a) (i) What is a rock? (2mks)
- (ii) Describe three ways through which sedimentary rocks are formed. (6mks)
- (b) Describe the process through which sedimentary rocks change to metamorphic rocks (4mks)
- (c) Give examples of each of the following igneous rocks
- (i) Plutonic rock (1mk)
- (ii) Hypabyssal rock (1mk)
- (iii) Volcanic rock (1mk)
- (d) Students from a secondary school were to carry out a field study of rocks within their district
- (i) Name **three** secondary sources of information they would use to prepare for the field study (3mks)
- (ii) State **four** activities they would carry out during the field study. (4mks)
- (iii) State **three** problems they are likely to face during the study. (3mks)
8. (a) The diagram below shows a glaciated landscape. Use it to answer the questions that follow.



- (i) Identify the feature labeled M and N (2mks)
- (ii) Name **two** process through which feature marked N is formed. (2mks)
- (iii) Describe how feature marked N is formed. (5mks)
- (b) (i) Name **two** types of moraine (2mks)
- (ii) Explain **two** factors that determine the speed of ice movement (4mks)
- (c) Students from a school near Mt. Kenya were planning to carry out a field study of the glaciated features on top of the mountain
- (i) State **two** reasons why they need to conduct a pre-visit (2mks)
- (ii) Give **three** challenges they would likely to face during their field study (3mks)
- (iii) Give **five** significance of the glaciated landscape they observed during their field study on the human activities (5mks)
9. (a) Define a desert (2mmks)
- (b) (i) State **four** types of deserts depending on the nature of their surfaces (4mks)
- (ii) Name **three** features in arid regions that are associated with wind deposition. (3mks)
- (c) Using well labeled diagrams describe the formation of the following resultant features of the wind erosion
- (i) Yardang (4mks)

(ii) Rock pedestal

(4mks)

(d) Suppose you were to carry out a field study on desert land forms.

(i) State **two** objectives and one hypothesis for your study.

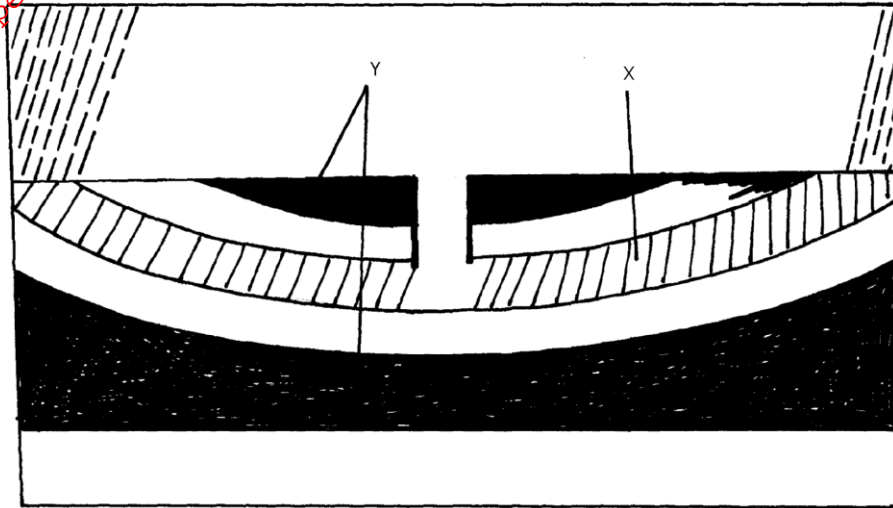
(3mks)

(ii) Give **two** methods you would use to collect your data.

(2mks)

(iii) State **any three** challenges you are likely to face during your study. (3mks)

10. (a) The diagram below shows an artesian well.



(i) Name the parts labeled X and Y

(2mks)

(ii) Explain **four** conditions necessary for the formation of artesian wells

(8mks)

(b) (i) State **three** ways in which springs form

(3mks)

(ii) Explain **three** significance of underground water to the physical and human environment

(6mks)

(c) You have been asked to carry out a field study in a Karst landscape

(i) State **two** hypothesis of your study.

(2mks)

(ii) Give **four** reasons why it is necessary to carry out a pre- visit before the study.

(4mks)

For More Free KCSE past papers visit [www.freekcsepastpapers.com](http://www.freekcsepastpapers.com)

END

For More Free KCSE past papers visit [www.freekcsepastpapers.com](http://www.freekcsepastpapers.com)