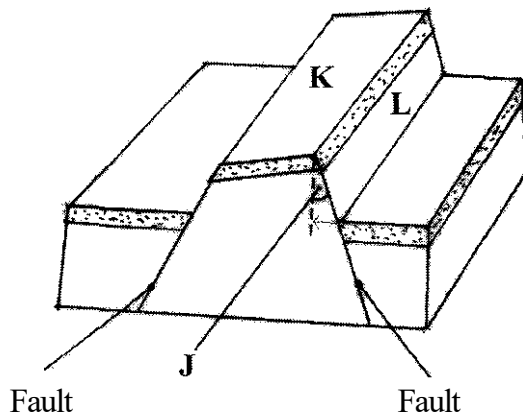# K.C.S.E GEOGRAPHY 2012
PAPER 1
SECTION A

Answer all the questions in this section.

    (a)   What is the relationship between Geography and Mathematics?   (2 marks)

    (b)   State four reasons why it is important to study Geography.   (4 marks)

2   *(a)*   Name the two layers of discontinuity that are part of the interior structure of earth. (2 marks)

    (b)   State **three** characteristics of the outer core in the interior structure of the earth. (3 marks)

3   *(a)*   Name **two** forms of precipitation that commonly occur in Kenya.   (2 marks)

    (b)   What is a Stevensons screen?   (2 marks)

4   *(a)*   Identity two causes of earth movement.   (2 marks)

    The diagram below shows some features formed as a result of faulting.

K L

J

Fault   Fault

(b)   Identify:
(i)   the angle marked J.   (1 mark)

   (ii)   the features marked K and L.   (2 marks)

(a)   Identify two sources of water found in a lake.   (3 marks)

(b)   Give **three** characteristics of lakes formed due to faulting   (2 marks)

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

Study the map of Kitale 1:50,000 (sheet 75/3) provided and answer the following questions.

(a) (i)   Identify the two human made features found at the grid square 2320.
                                                              (2 marks)

(ii) What is the altitude of the highest point in the area covered by the map?
                                                              (2 marks)

(iii) Give **three** types of natural vegetation found in the area covered by the map.
                                                              (3 marks)

(b) (i) What is the bearing of the Air Photo Principal Point at grid square 3426 from the
            Air Photo Principal Point at grid square 2931?   (2 marks)

(ii)   Measure the distance of the dry weather road (C 640) from the junction at point M   (345142) to the
       junction at point N (416201). Give your answer in Kilometres. (2 marks)

(c) (i) Using a scale of 1 cm to represent 40 metres, draw a cross section from grid
           reference 410180 to grid reference 500180.   (4 marks)

(ii)   On the cross-section, mark and name the following:
              • a dry weather road;   (1 mark)
              • River Kaptarit;   (1 mark)
              • a ridge.   (1 mark)

(iii)   Calculate the vertical exaggeration (VE) of the section. (2 marks)

(d)   Citing evidence from the map, identify five social services offered in Kitale
         Municipality.   (5 marks)

(7)   (i)   What is a mineral?   (2 marks)

         (ii)   Describe the following characteristics of minerals:

         • lustre;   (2 marks)
         • colour;   (2 marks)
         • density.   (2 marks)

(b)   (i)   Name **two** examples of extrusive igneous rocks.   (2 marks)

         (ii)   Describe **three** ways in which sedimentary rocks are formed.   (9 marks)

(c)   Explain the significance of rocks to the economy of Kenya under the following
         subheadings:

         (i)   tourism;   (2 marks)

         (ii)   energy;   (2 marks)

         (iii)   water.   (2 marks)

8.(a) Explain the following processes of weathering:

         (i)   hydration;   (2 marks)

         (ii)   oxidation;   (2 marks)

         (iii)   frost action.   (3 marks)

(b)   Describe how an exfoliation dome is formed.   (6 marks)

(c)   Explain three physical factors that enhance movement of materials along a
         slope due to gravity.   (6 marks)

(d)   (i)   Give **two** processes of rapid mass movement.   (2 marks)

         (ii)   State **four** indicators of occurrence of soil creep in an area.   (4 marks)

9. (a (i) Outline **two** factors that influence the development of drainage patterns. (2 marks)

(b)   Describe the following processes of river erosion:

(i)   attrition;   (2 marks)

(ii)   corrasion.   (4 marks)

(c)   Explain **three** negative effects of rivers to the human environment.

(d)   Your class is planning to carry out a field study of a river in its old stage.

                                                        (3 marks)

(i)   State **three** reasons why it would be necessary to pre-visit the area of study.

                                                        (3 marks)