

312/2  
GEOGRAPHY  
PAPER 1  
FORM 4  
MARCH / APRIL 2013  
TIME: 2½ HOURS

**WESTERN ZONE JOINT EXAMINATIONS - 2013**  
**WEZOJE**

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

**INSTRUCTIONS TO CANDIDATES**

1. This paper consists of **TWO** sections, **A** and **B**.
2. Answer **ALL** question in section **A**
3. Answer question **SIX** and any other **TWO** questions from section **B**.

*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:**

1. a) State **two** effects of the earth's movement around the sun. (2marks)  
b) Describe the shape of the earth. (3marks)
2. a) The diagram below shows the occurrence of air current along the coastal region.
  - i) Identify the above type of air current. (1mark)
  - ii) Describe the occurrence of the above type of air current. (4marks)
3. a) Give **two** characteristics of metamorphic and rocks. (2marks)  
b) Describe the formation of coralline timestone. (4marks)
4. The diagram below shows a composite volcano.
  - a) Name the features marked, Q and R. (2marks)
  - b) Explain the formation of a crater lake. (3marks)
5. a) State **two** causes of river rejuvenation (2marks)  
b) Name **two** features resulting from river rejuvenation. (2marks)

### **SECTION B:**

#### **Answer question 6 and any other two questions from this section.**

6. Study the map extract of KITALE (1:50,000) sheet 75|3 provided and answer the questions that follow:
    - a)
      - i) Name the **two** districts found in the area covered by the map. (2marks)
      - ii) What is the latitudinal extent of the area covered by the map to the South of Northing 20. (2marks)
    - b) Identify **three** types of natural vegetation found in the area covered by the map. (3marks)
    - c) Describe the drainage of the area covered by the map (4marks)
    - d) Citing evidence from the map, explain three factors that favour growing of coffee in the area covered by the map. (6marks)
    - e)
      - i) Using a vertical scale of 1cm to represent 40m, draw a cross section between Easting 25 and Easting 33 along Northing 17. On the cross-section you have drawn, mark and name the following features; (6marks)
        - Coffee plantation
        - River koitobos
        - All weather roads C641
      - ii) Determine the slope of the landscape of the cross section you have drawn in e(i) above. (2marks)
  7. a) What is faulting? (2marks)  
b) Name **three** types of faulting that are likely to occur on the crustal layers. (3marks)  
c) The map of Kenya given below shows the faulted areas in Kenya.
    - i) Name the faulted feature marked X. (1mark)
    - ii) Name the lakes marked 1, 2 and 3. (3marks)
    - iii) Describe the formation of the faulted landscape marked X. (6marks)
  - d) Form four Geography students from your school carried out a field study on a faulted landscape.
    - i) State **four** preparations the students made before the actual field study. (4marks)
    - ii) State **four** studies the students made in the field on the significance of faulting to the human environment. (4marks)
    - iii) Give **two** reasons why the students decided to study faulting using field work approach. (2marks)
8. a)
  - i) Name **two** instruments that are kept in the Stevenson screen. (2marks)

- ii) Describe **three** characteristics of the Stevenson screen. (6marks)
- b) State **three** ways through which warm air rises. (3marks)
- c) The table below shows the annual temperature and rainfall patterns of a given weather station in the year 2012.

Table

- i) Describe the characteristics of climate experienced in this station. (5marks)
- ii) Name **two** parts of the world where such climate is experienced. (2marks)
- d) Account for the characteristic of the tropical hot desert vegetation. (7marks)
9. a) i) Distinguish between a well and a spring. (2marks)
- ii) Describe **three** ways in which springs may occur. (6marks)
- b) Explain how the following features influence infiltration of water underground.
- i) Ground level saturation. (2marks)
- ii) Nature of the rocks. (2marks)
- c) Illustrate with a well labeled diagram the occurrence of an artesian well. (5marks)
- d) Describe the process of formation of a polje lake (8marks)
10. a) i) State **four** physical factors that encourage development of deserts. (4marks)
- ii) Outline **four** ways that can be used to rehabilitate desert lands. (4marks)
- b) Name **three** types of desert landscapes. (2marks)
- c) Explain **three** processes through which wind erodes the desert landscape. (6marks)
- d) Describe the formation of the following desert landforms.
- i) Rock pedestals (4marks)
- ii) Seif dunes (4marks)
- iii) Inselbergs (4marks)