

312/1  
**GEOGRAPHY**  
Paper 1  
July/August 2016  
**Time: 2<sup>3</sup>/<sub>4</sub> Hours**

**NTIMA, NYAKI AND MUNICIPALITY CLUSTER EVALUATION 2016**  
*Kenya Certificate of Secondary Education (K.C.S.E)*

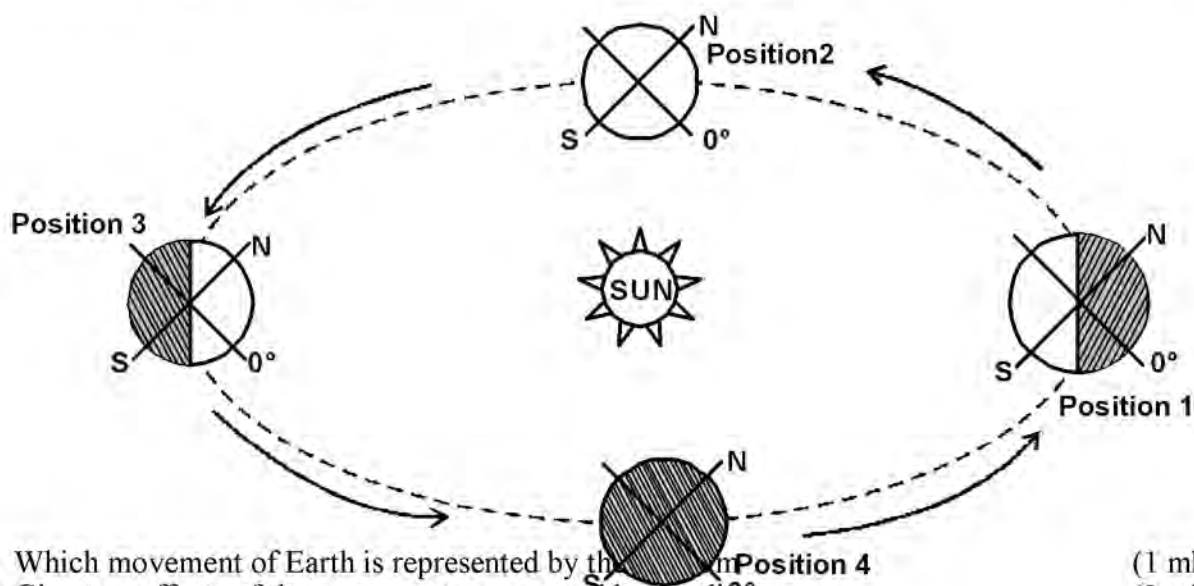
**GEOGRAPHY**  
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**INSTRUCTIONS TO CANDIDATES**

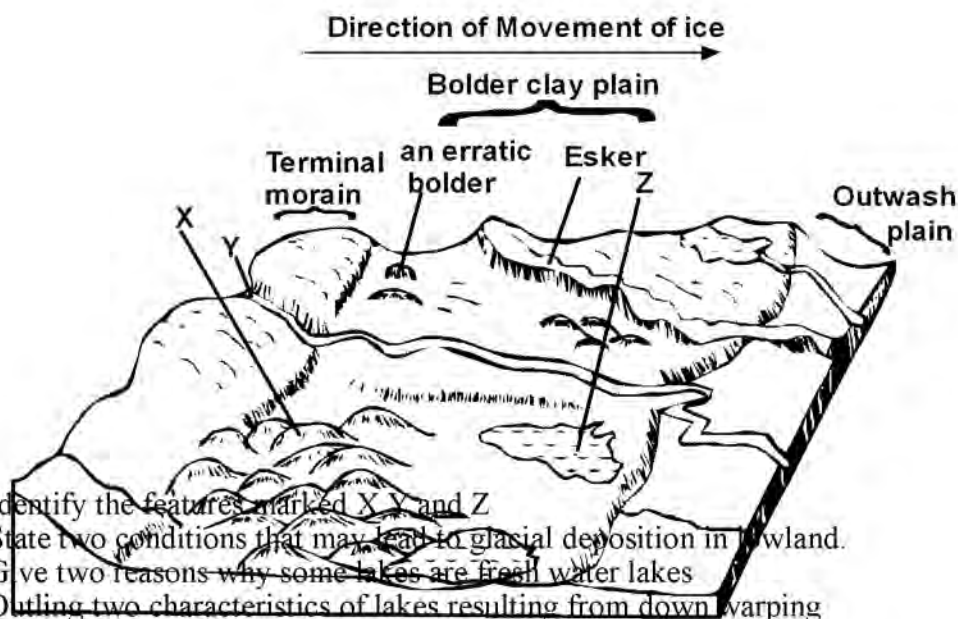
- a) This paper consists of two sections; A and B
- b) Answer ALL questions in section A
- c) Answer question 6 and any other two questions from section B
- d) All answers must be written in the answer booklet provided

**SECTION A:**  
**Answer ALL the questions in this section**

1. a) Name two theories of the origin of the earth. (2 mks)  
b) Identify four layers of the earth's atmosphere. (4 mks)
2. a) Give two reasons why recording of data in a school weather station may be inaccurate. (2 mks)  
b) State three conditions under which clouds are formed. (3 mks)
3. a) Give two dates in a year when the length of day and night are equal. (2 mks)  
b) Study the diagram below and answer the questions that follow.



- i) Which movement of Earth is represented by the diagram? (1 mk)  
ii) Give two effects of the movement represented by the diagram. (2 mks)
4. a) The diagram below shows the features resulting from glaciations on a lowland region. Use it to answer question (a).

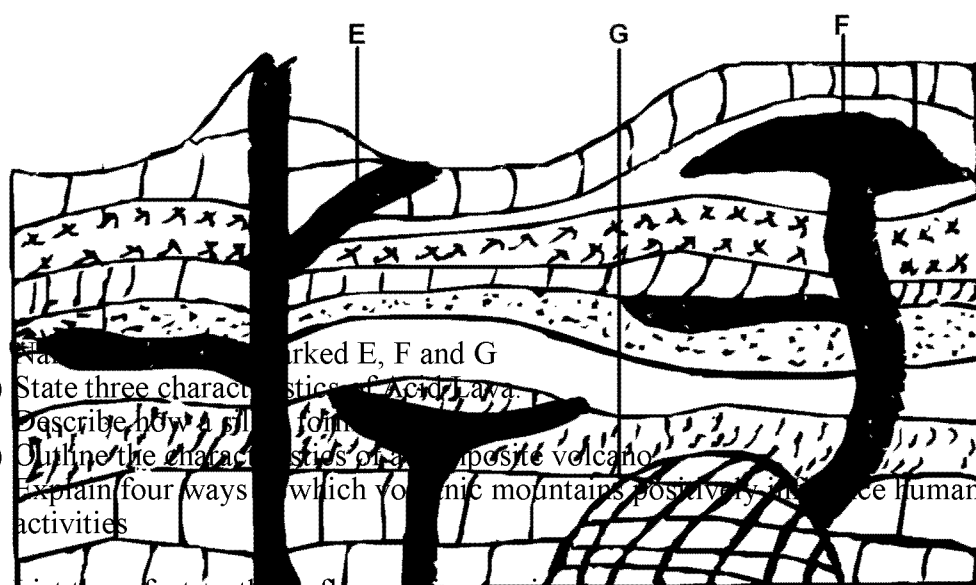


- i) Identify the features marked X, Y and Z. (3 mks)  
ii) State two conditions that may lead to glacial deposition in lowland. (2 mks)
5. a) Give two reasons why some lakes are fresh water lakes. (2 mks)  
b) Outline two characteristics of lakes resulting from down warping. (2 mks)

**SECTION B**

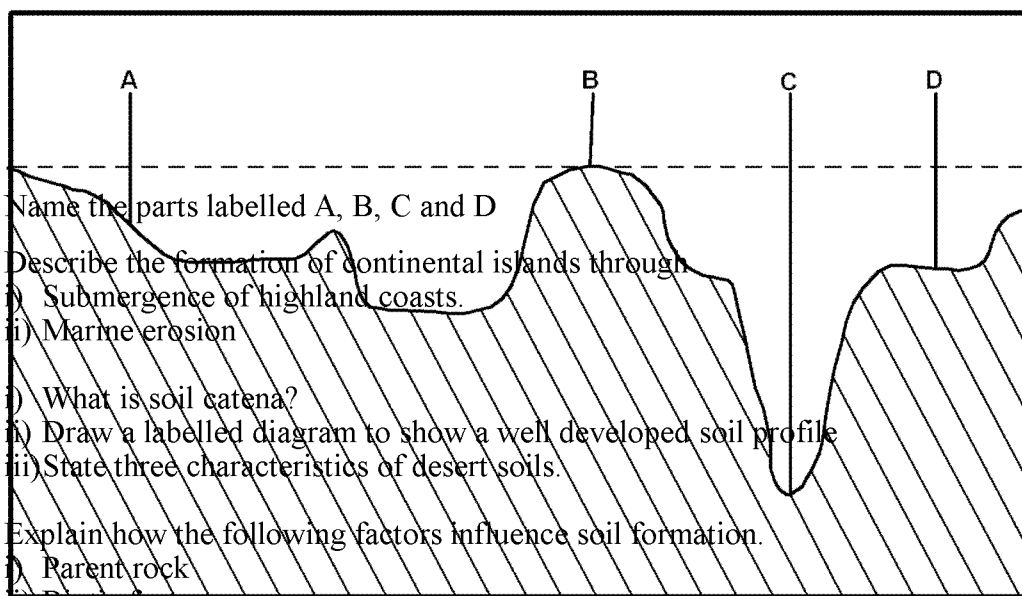
**Answer question 6 and any other two questions from this section**

6. Study the map of Busia 1:50000(sheet 101/1) provided and answer the following questions
- Give the six figure grid reference of the trigonometrical station (spk 206) on Odiado hill. (2 mks)
    - Measure the distance of the All weather road (c 526) from the provincial boundary grid reference 286318 to the junction at Nangina mission grid reference 222310, give your answer in kilometres (2 mks)
  - Using a scale of 1 cm to represent 20 metres draw a cross section from grid reference 300355 to 3703551 (5 mks)
    - On it mark and label the following
      - Burende hill (1 mk)
      - All weather road (1 mk)
      - River Madere (1 mk)
      - Riverrine trees (1 mk)
  - Describe the drainage of the area covered by the map (6 mks)
  - Student from Burienda School carried out a field study of natural vegetation around their school
    - What preparations are they likely to have made for the study (2 mks)
    - How would they identify the different types of plants (4 mks)
7. a) i) Name two types of earthquake (2 mks)  
 ii) Differentiate between earthquake intensity and earthquake magnitude (2 mks)
- b) The diagram below shows some intrusive volcanic features



- Name the features marked E, F and G (3 mks)
    - State three characteristics of Acid Lava (3 mks)
  - Describe how a sill is formed (4 mks)
    - Outline the characteristics of a composite volcano (3 mks)
  - Explain four ways in which volcanic mountains positively influence human activities (8 mks)
8. a) i) List three factors that influence river regime (3 mks)  
 ii) State three ways in which river water flows on the channel (3 mks)  
 b) Describe three processes by which a river transports its load (6 mks)  
 c) i) State four conditions which may lead to river rejuvenation (4 mks)

- ii) Identify three features formed by river rejuvenation (3 mks)
- d) Explain any three negative effects of river rejuvenation (6 mks)
9. a) i) What are tides? (2 mks)
- ii) Give three causes of ocean currents. (3 mks)
- iii) Name three ocean currents along the western coast of Africa (3 mks)
- b) i) State three characteristics of submerged lowland coasts. (3 mks)
- ii) Give four factors that influence the temperature of ocean water (4 mks)
- c) The diagram below shows ocean topography



- Name the parts labelled A, B, C and D (4 mks)
- d) Describe the formation of continental islands through
- i) Submergence of highland coasts. (3 mks)
- ii) Marine erosion (3 mks)
10. a) i) What is soil catena? (2 mks)
- ii) Draw a labelled diagram to show a well developed soil profile (5 mks)
- iii) State three characteristics of desert soils. (3 mks)
- b) Explain how the following factors influence soil formation.
- i) Parent rock (4 mks)
- ii) Biotic factors (4 mks)
- c) You are supposed to carry out a field study of an eroded area.
- i) What information would you collect through observation that would indicate that the area is severely eroded? (2 marks)
- ii) Identify two methods you would use to record the observations. (2 marks)
- iii) State three recommendations you would make to control soil erosion. (3 mks)