

**312/1**  
**GEOGRAPHY**  
**PAPER 1**  
**JULY / AUGUST 2010**  
**TIME 2 ¾ HOURS**

**BURETI DISTRICT JOINT EVALUATION TEST – 2010**  
*Kenya Certificate of Secondary Education (K.C.S.E)*

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**INSTRUCTIONS TO CANDIDATES.**

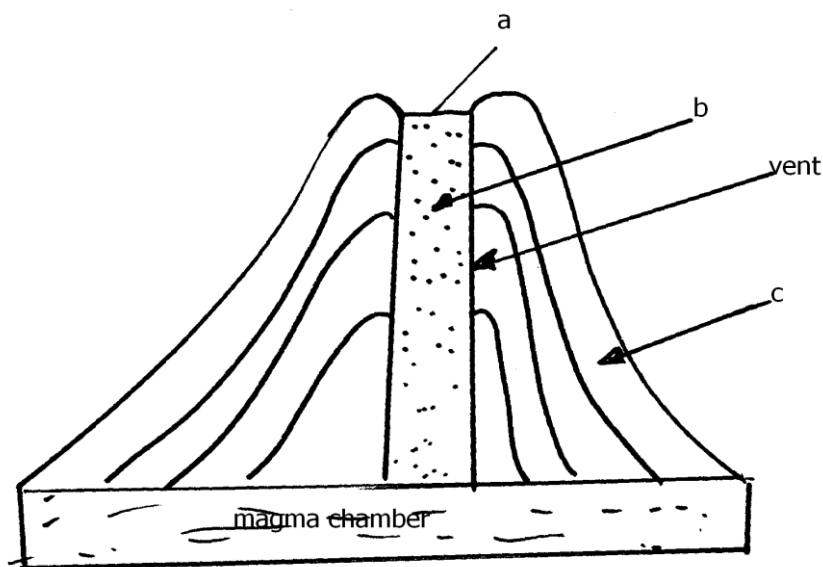
1. Answer **all** the questions in Section A.
2. In section B answer Question 6 and any other **two**.
3. All questions must be answered on the answer booklet provided.

*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

Answer ALL questions in this section

1. (a) Name three types of tides. (3mks)  
(b) Differentiate between oceans and seas. (2mks)
2. (a) What is river rejuvenation. (2mks)  
(b) State three negative influence of rivers on the human environment. (3mks)
3. (a) The feature below shows an extrusive land form in a volcanic area. Name the parts labeled a, b, c. (3mks)



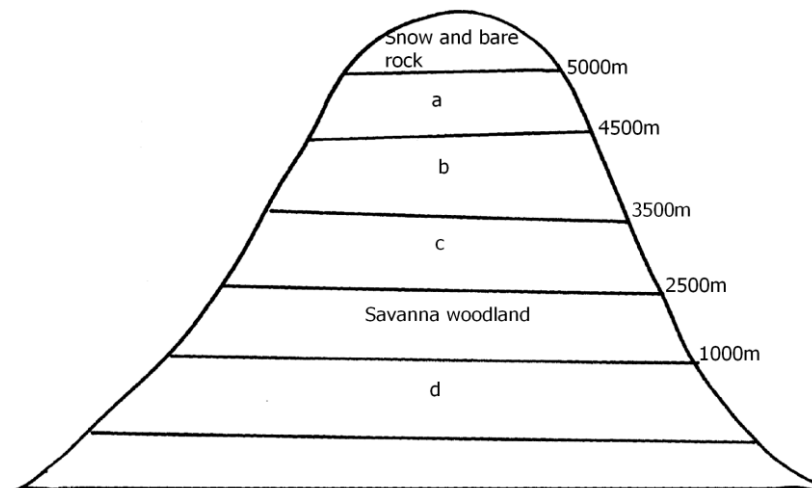
- (b) Differentiate between hot springs and geysers. (2mks)
4. (a) State two human causes of Earthquakes. (2mks)  
(b) Give two types of surface waves caused by Earthquakes. (2mks)  
(c) List two scales used in measuring the intensity and magnitude of Earthquakes. (2mks)
5. (a) Give two main zones of the atmosphere. (2mks)  
(b) What is:  
(i) Zero lapse rate. (2mks)  
(ii) Negative lapse rate. (2mks)

## SECTION B

### Answer question SIX and ANY other TWO questions

6. Study the map of Kericho (1:50,000) sheet 117/4 provided and answer the following questions:
- (a) (i) What is the bearing of the secondary trigonometrical station 2173 around Kapcheptoror School from the dry weather road junction at Kipchimchim School. (2mks)
- (ii) Give a six – figure grid reference of the trigonometrical station (other) 1811 near Poiywek School. (2mks)
- (iii) Convert the scale of the map into a statement scale. (2mks)
- (iv) Using lines of latitudes and longitudes give the position of Keongo School at grid square 5662. (2mks)
- (v) Give two methods used in representing relief in the area covered by the map. (2mks)
- (b) Citing evidence from the map, state
- (i) Two economic activities carried out within Kericho Municipality. (2mks)
- (ii) Two economic activities carried out in the area covered by the map.(2mks)
- (c) Using a vertical scale 1cm represents 20m:
- (i) Draw a cross section from grid reference 550640 to 590660. (3mks)
- (ii) On the cross section, mark and name the following features:
- A river
  - Dry weather road
  - A hill (3mks)
- (d) Describe the drainage of the area covered by the map. (5mks)
7. (a) What is a lake. (2mks)
- (b) (i) Name two types of lakes formed due to vulcanicity. (2mks)
- (ii) Explain how Lake Victoria influences the climate of the surrounding area. (6mks)
- (c) (i) State three main reasons why lakes within the Rift Valley are salty. (3mks)
- (ii) Name any three fresh water lakes in Kenya which are within the Rift Valley(3mks)
- (d) (i) Explain any four economic significance of lakes to human activities. (8mks)
- (ii) Give one negative effect of lakes to man. (1mk)
8. (a) (i) Differentiate between a soil profile and soil catena. (2mks)
- (ii) State two processes of soil formation. (2mks)
- (b) Explain how the following factors influence soil formation.
- (i) Climate
- (ii) Living organism.
- (iii) Topography (6mks)

- (c) (i) What is soil degeneration. (2mks)
- (ii) Explain three ways through which vegetation naturally protects and prevents soil erosion. (6mks)
- (iii) Give two sound farming methods that help conserve soil erosion. (2mks)
- (d) You are required to carry out a field study on soil erosion around your school.
- (i) State two methods you would use to record data. (2mks)
- (ii) Give three problems you may encounter during the field study. (3mks)
9. (a) (i) State two ways in which wind erodes the surface of the earth. (2mks)
- (ii) Explain three ways through which wind transports its load. (6mks)
- (b) Using well labeled diagrams, describe how the following desert features are formed.
- (i) Zeugen (5mks)
- (ii) Rock pedestal (5mks)
- (c) (i) What is the name given to rocky desert in the Sahara. (1mk)
- (ii) Explain three positive effects of desert features to both human and physical environment. (6mks)
10. (a) (i) Name two types of vegetation. (2mks)
- (ii) Give two physiographic factors influencing vegetation distribution. (2mks)
- (b) The diagram below shows vegetation zones of an East African mountain. Use it to answer the questions below (b i) and b ii).
- (i) Name the zones a, b, c, d. (4mks)
- (ii) Give one reason why there is no vegetation cover on top of the mountain. (1mk)



- (c) (i) State the names given to temperate grassland vegetation in:
- North America (1mk)
  - Argentina (1mk)
- (ii) Explain three uses of Savanna vegetation. (6mks)
- (d) Explain four characteristics of tropical desert vegetation. (8mks)