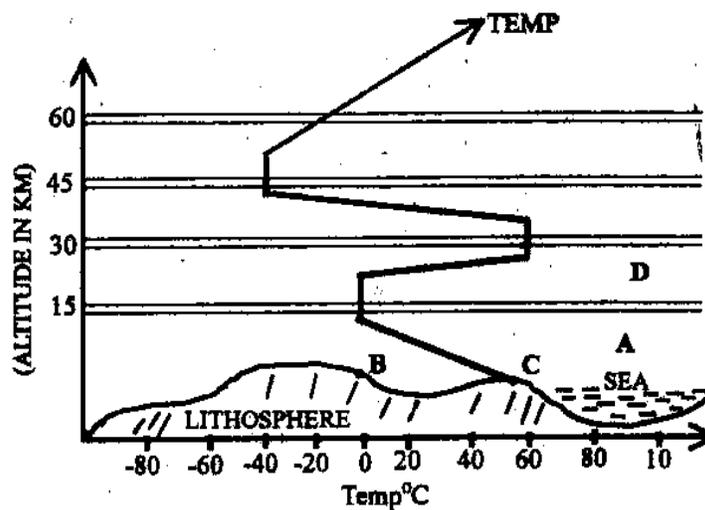


**NANDI EAST DISTRICT JOINT EVALUATION TEST 2009**  
**Kenya Certificate of Secondary Education.**

**SECTION A:**

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

1. The diagram below shows the structure of the atmosphere. Use it to answer questions (a) and (b):



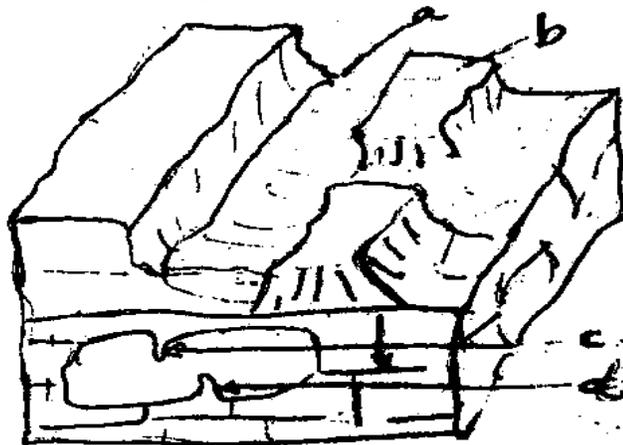
- (a) (i) Give two characteristics of the layer marked D. (2mks)  
(ii) What is the relationship between temperature and pressure in layer A?(1mk)
- (b) Calculate the temperature of station B at 300m above sea level, if temperature at C at 0 m is 20oc, given a latic rate of 6.5o c per 100m rise (2mks)
2. (a) Differentiate between seismic zone and a seismic zone.(2mks)  
(b) Describe how isostasy can cause an earthquake. (2mks)
3. a) Give two exogenic processes which form the basis for classifying lakes(2mks)  
(b) State three characteristics of sedimentary rocks.(2mks)
4. (a) Name two exogenic processes which form the basis for classifying lakes (2mks)  
(b) Using well labelled diagram describe how lake Malawi was formed.(3mks)
5. (a) Giving a reason identify the major type of weathering within equatorial climate zone. (2mks)  
(b) Describe briefly how soil creep occur. (3mks)

**SECTION B:**

**Answer question 6 and any other two questions in this section:**

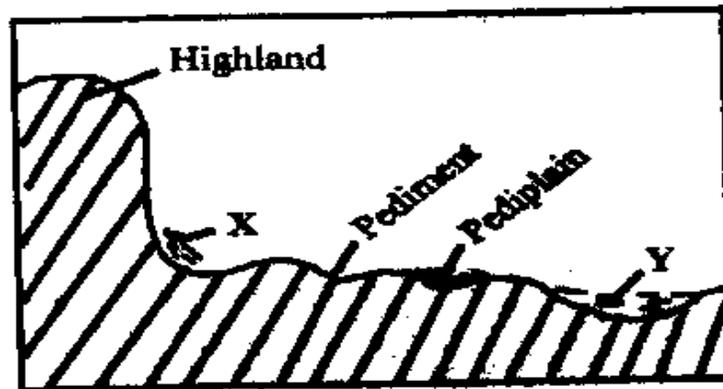
**Study the map of Kericho 1:50,000 provided and answer the questions that follow.**

6. (a) (i) Identify the dominant physical feature at grid square 6770.  
(ii) Measure the distance of Kericho Municipality boundary.  
(Give your answer in kilometers).  
(iii) Identify three major drainage features in the area covered by the map.(3MKS)
- (b) Calculate the gradient from grid reference 5106670 to 550670,  
(give your answer ratio form).
- (c) (i) Using a vertical scale of 1cm represents 50m, draw a cross section from grid reference 650680 to 6507720.On the cross section mark and name the following:  
-Road  
-River  
-Settlement.(6mks)  
(ii) Calculate the vertical exaggeration of the cross section.(2mks)
- (d) Describe the relief of the area covered by the map.(5mks)
- (e) Citing evidence state three non –economic functions of Kericho town.(3mks)
7. (a) (i) State two factors that influence the existence of groundwater.(2mks)  
(ii) Describe three ways through which springs are formed.(6mks)
- (b) Give three ideal conditions necessary for the formation of artesian wells(6mks)
- (c) The diagram below shows feature in a limestone area. Use it to answer questions that follow:



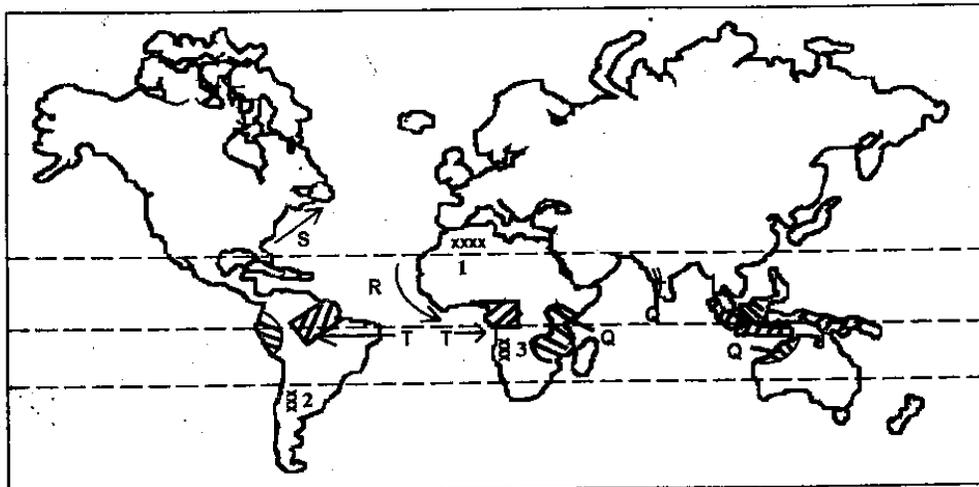
- (i) Name the feature marked a and b  
(ii) Describe how the features marked c and d were formed.(6mks)
- (d) Explain any three importance of ground water to human life.(6mks)

8. (a) With the aid of well labeled diagram, describe how the following features are formed:
- (i) Rock pedestal (3mks)
  - (ii) Mesa (3mks)
  - (iii) Salina. (3mks)
- (b) (i) State three main ways in which wind transports materials.(3mks)
- (ii) Highlight four factors that influence wind deposition.(4mks)
- (c) (i) What is a desert. (1mk)
- (ii) You are planning to carry out a field study on a desert area.
- State two objective for your study. (2mks)
  - Give four methods you would use to collect data.(4mks)
- (d) The diagram below shows a cross – section of a desert basin and a nearby highland.



Name the features marked X and Y.(2mks)

9. Use the world map below to answer the following questions.



- (a) (i) Differentiate between climate and weather(2mks)
- (ii) Name the ocean current marked S and R(2mks)
- (iii) Name the type of climate experienced in the area marked Q(2mks)
- (b) (i) State five characteristics of the type of climate found in the region marked 3 (5mks)
- (ii) Explain the occurrence for the climate in the areas marked 2 and 3.(4mks)
- (c) (i) Give three characteristics of the type of vegetation in the area marked T(3mks)
- (ii) State three factors hindering the exploitation of the vegetation in the region marked T.(3mks)
- (d) Explain two ways in which vegetation found in the area marked 1adopts to the environmental conditions of the region.(4mks)

- 10.a) (i) what is folding?(4mks)
- (ii) Draw a simple symmetrical fold and label it.(1mk)
- b) (i) apart from fold mountains, name four other features resulting from folding.
- (ii) Apart from the plate tectonic theory, state three other theories explaining the formation of fold mountains.(3mks)
- (iii) Using a well labeled diagram explain the formation of fold mountains by the plate tectonics theory.(6mks)
- c) (i) Name two fold mountaints in Africa(2mks)
- (iii) State three negative significance of folding to human activities.(4mks)