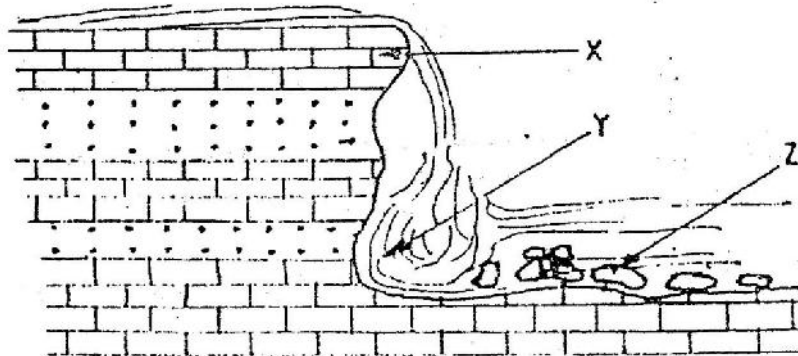


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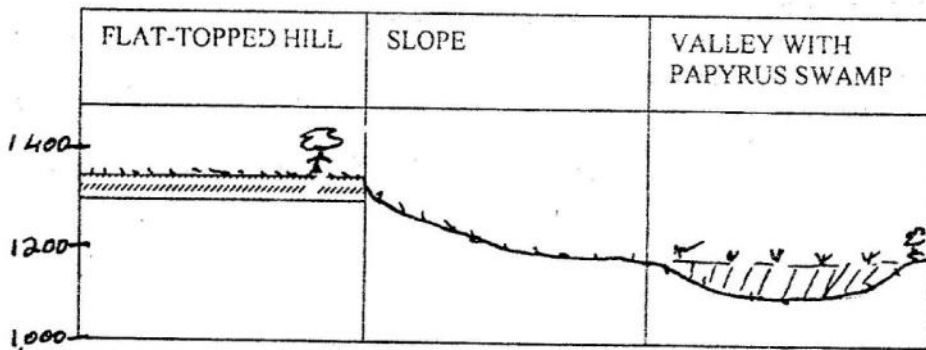
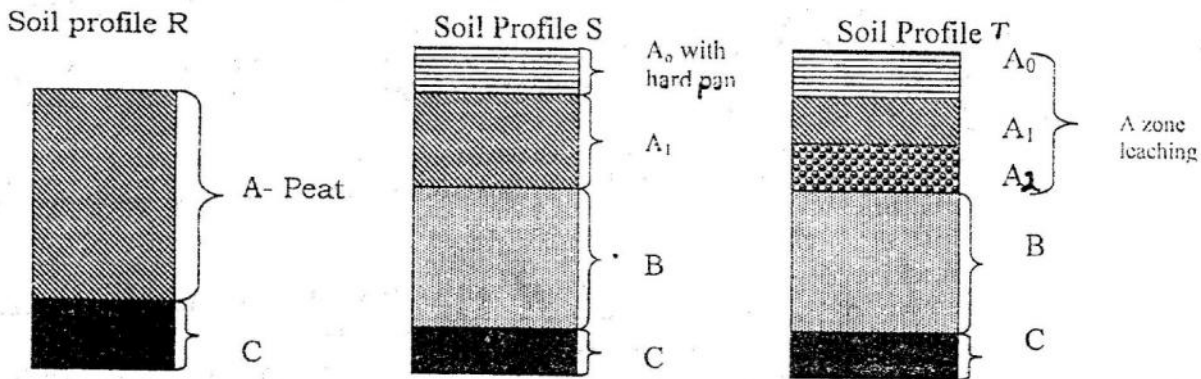
**Section A**

**Answer all the questions in this section**

1. (a) Name two elements of weather that can be recorded at a school weather station  
 (b) Give three reasons why the recording of data at a school weather station may be inaccurate
2. (a) State two factors which influence the occurrence of surface run-off  
 (b) The diagram below shows a waterfall. Name the feature marked X, Y and Z

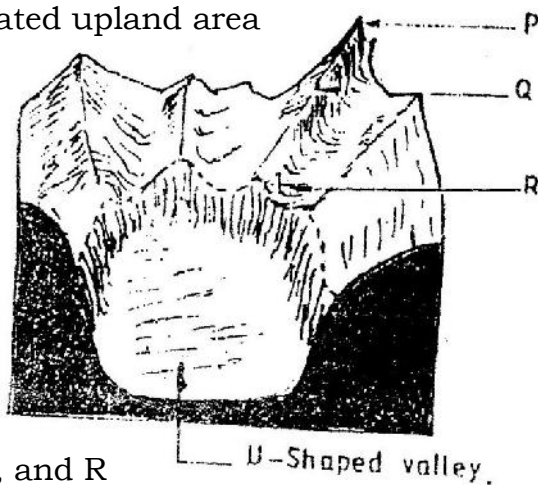


3. (a) State two causes of submergence of coasts  
 (b) Name two features that form as a result of submergence of coasts
4. (a) What is soil?  
 (b) The diagram below shows a cross-section of a hillside and soil profiles that develop at different parts of the hillside



Match the soil profiles with the corresponding parts of the hillside where each profile is likely to develop

5. The diagram below shows a glaciated upland area



(a) Name the feature marked P, Q, and R

(b) How is a U-shaped valley formed?

### SECTION B

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

6. Study the map of Mathioya 1: 50,000 provided and answer the following questions

(a) (i) What is the bearing of the cattle dip at grid reference 716386 from the coffee factory at grid reference 740377?

(ii) Give the approximate height of Kigoini dam

(iii) Measure the length of the district boundary in the Aberdare forest from Western margin of the map to the eastern edge of the forest  
(Give your answer in kilometers)

(b) Describe the drainage of the area covered by the map

(c) Draw a sketch section along northing 42 from grid reference 720420 to grid reference 760420

On the section mark and name

(i) A road

(ii) A forest

(iii) A river

(d) Describe the distribution of settlements in the area covered by the map

(e) (i) Citing evidence from the map, give two reasons why the area covered by the map is suitable for coffee growing

(ii) Apart from agriculture, name two other economic activities carried out in the area covered by the map

7. (a) Differentiate between plutonic rocks and volcanic rocks
- (b) Describe how lava plateau is formed
- (c) (i) Name three volcanic features found in the rift valley of Kenya  
(ii) Explain four negative effects of vulcanicity in Kenya
- (d) You intend to carry out a field study of a volcanic landscape
- (i) State four reasons why it is necessary to conduct a reconnaissance of the area of study.
- (ii) During your field work, you intend to study volcanic rocks, state why you would need the following items
8. (a) State three characteristics of the inter-tropical convergence zone
- (b) With the aid of a labeled diagram, describe how relief rainfall is formed
- (c) State five characteristics of the hot desert climate
- (d) You are required to carry out a field study to determine the relationship between climate and vegetation in your district
- (i) Give three reasons why you would need the map of the district
- (ii) Name two sampling techniques you are likely to use during the field study
- (iii) Give two reasons why sampling would be appropriate for this study
- (iv) State four methods you would use to record data during the field study
9. (a) (i) Describe how lake Victoria was formed  
(ii) Explain how Lake Victoria has modified the climate of the surrounding
- (b) Explain why some lakes in the rift valley have fresh water
- (c) State five economic uses of lakes
- (d) Explain how each of the following have affected lakes in Kenya
- (i) Deforestation
- (ii) Industrialization
- (iii) Water weeds