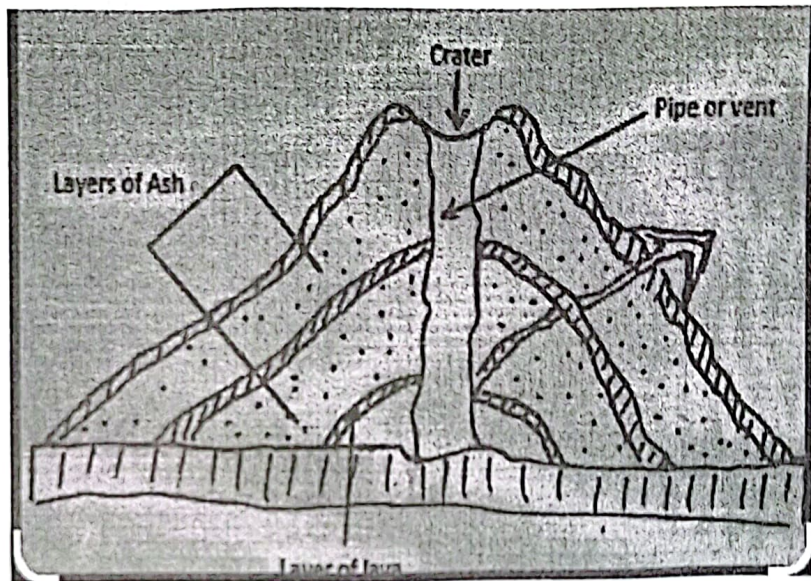


Section A (25mks)

Answer all question from this section

1. a) What is practical geography (2mks)  
b) Give three areas covered under practical geography (3mks)
2. a) Differentiate between local time and standard time. (2mks)  
b) The local time at Kinshasa  $60^{\circ}\text{W}$  is 10:30am. What is the time in Mombasa ( $37^{\circ}\text{E}$ )? (3mks)
3. a) Identify two features formed as a result of sub-mergence of the coast (2mks)  
b) State three characteristics of submerged lowland coasts (3mks)
4. The diagram below represents an extrusive feature of Vulcanicity. Use it to answer question 4.



- a. Identify the above feature. (1mk)  
b. Describe how the feature is formed. (4mks)
5. a). What is derived vegetation? (2mks)  
b). State how climate influences the distribution of vegetation. (3mks)

**SECTION B (75 MKS)**

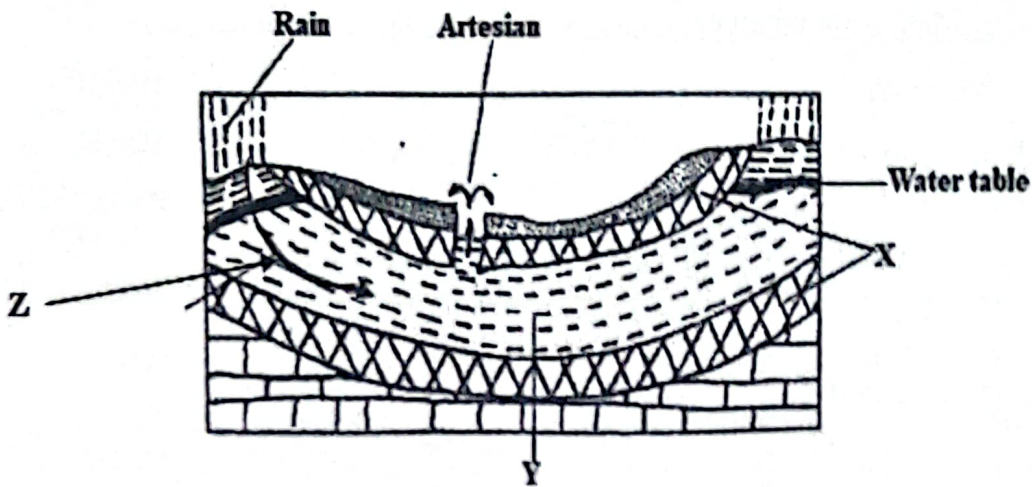
**Answer question 6 (compulsory) and any other two questions from this section**

6. Study the map of Mumias 1:50,000(sheet 102/2) provided and answer the following questions.

- a i) What type of a map is Mumias? (1mk)
- ii) What information is contained in the map sheet title (1mks)
- b) i) What is the bearing of the Air Photo Principal point at grid square 6034 from the Air photo principal point at grid square 5336 (2mks)
- ii. Calculate the area of Siaya District. Give your answer in square Kilometres. (2mks)
- iii) Citing evidence from the map show that the area receives low rainfall (2mks)
- c) i. Using a scale of 1cm to represent 20 metres, draw a cross-section from grid reference 560300 to grid reference 630300 (4mks)
- ii. On the cross-section mark and label the following:
- Riverine trees (1mk)
  - Dry weather road. (1mk)
  - Main trucks (1mk)
- iii. Calculate the vertical exaggeration of the cross-section. (2mk)
- d) i. Describe the drainage of the area covered by the map. (4mks)
- ii. Citing evidence from the map, give two economic activities carried out in the area covered by the map. (4mks)
7. (a) State two types of earth movement. (2mks)
- (b) Explain how the following factors cause earth movements.
- i. Gravitational force (2mks)
- ii. Convectional currents in the mantle (2mks)
- (c) i. Apart from Fold Mountains, name any other three features resulting from folding.(3mks)
- ii. With the aid of a well labelled diagram, describe the formation of a thrust fold. (5mks)
- (d) Explain four negative effects of Fold Mountains on human activities. (8mks)
- (e) You are supposed to carry out a field study on an area affected by folding.
- i. Give one reason why you will need a route map. (1mk)
- ii. Identify two methods you could use to collect data during the field study. (2mks)

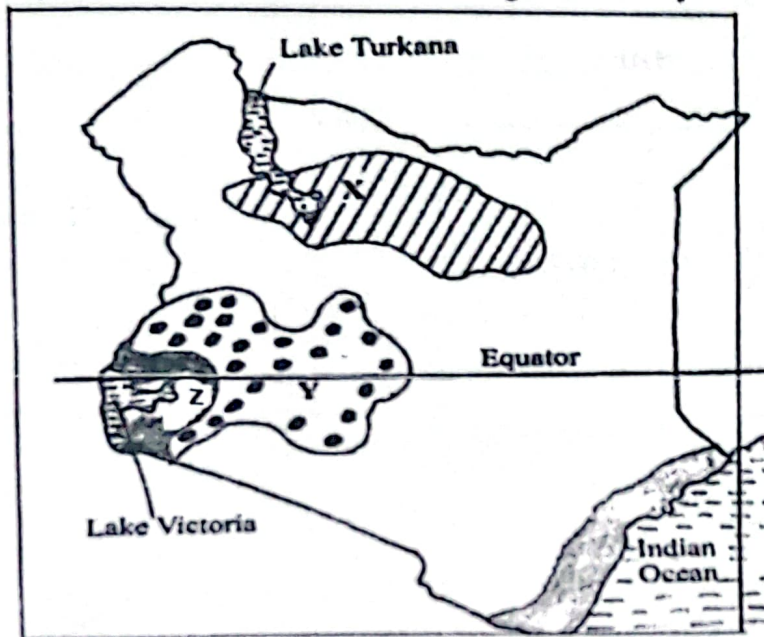


8. The diagram below represents an artesian basin. Use it to answer question (a)



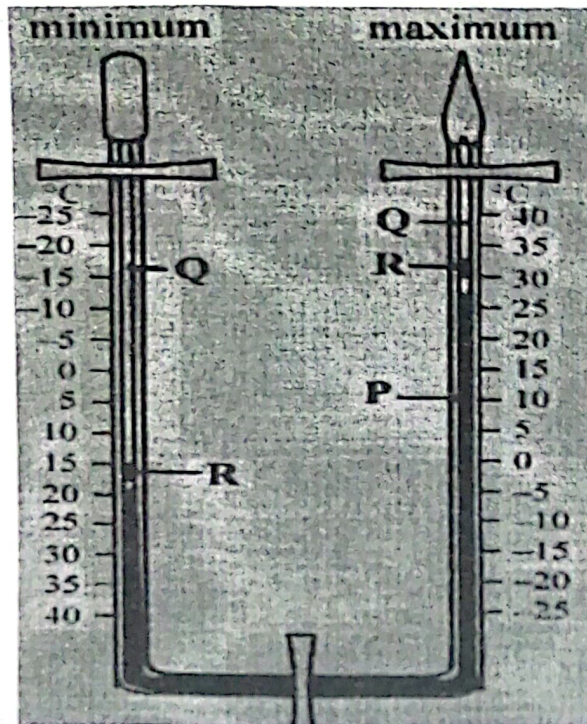
- (a) Identify:-
- (i) The layers marked X and Y (2mks)
  - (ii) The process marked Z. (1mk)
  - (iii) State **four** ideal condition for the formation of artesian well (4mks)
- (b) Explain how the following factors influence the amount of underground water in limestone areas.
- (i) Rainfall (2mks)
  - (ii) Vegetation cover. (2mks)
- (c) (i) Apart from stalagmites, name three other underground features formed in limestone areas. (3mks)
- (ii) With the aid of a well labelled diagram, describe how a stalagmite is formed. (8mks)
- iii) Give three reasons why there are few settlements in karst landscape. (3mks)

9) a) The map below shows some climatic regions in Kenya. Use it to answer the questions that follow:



- i) Name the climatic regions marked X and Y (2mks)
  - ii) State three characteristics of the climatic region marked Z (3mks)
- b) i) Distinguish between mist and fog. (2mks)
- ii) Using a well-labelled diagram, describe the formation of cyclonic rainfall. (5mks)

c) Use the diagram below to answer the questions that follow



i) Name the parts marked Q and P

(2mks)

ii) Describe how the instrument measures the highest temperature of the day

(6mks)

d i) Define the term weather forecasting.

(2mks)

ii) State any **three** challenges facing weather forecasting in Kenya.

(3mks)

10. a) What is mass Wasting?

(2mks)

b i) Apart from soil creep , give two processes of slow mass movement

(2mks)

ii) State four causes of soil creep

(4mks)

c) Explain how each of the following factors influence mass wasting

- Climate
- Vegetation cover
- Gradient of the slope

(4mks)

(2mks)

(2mks)

d) Describe each of the following types of mass wasting

- i. Slump
- ii. Earth flow

(5mks)

(4mks)