

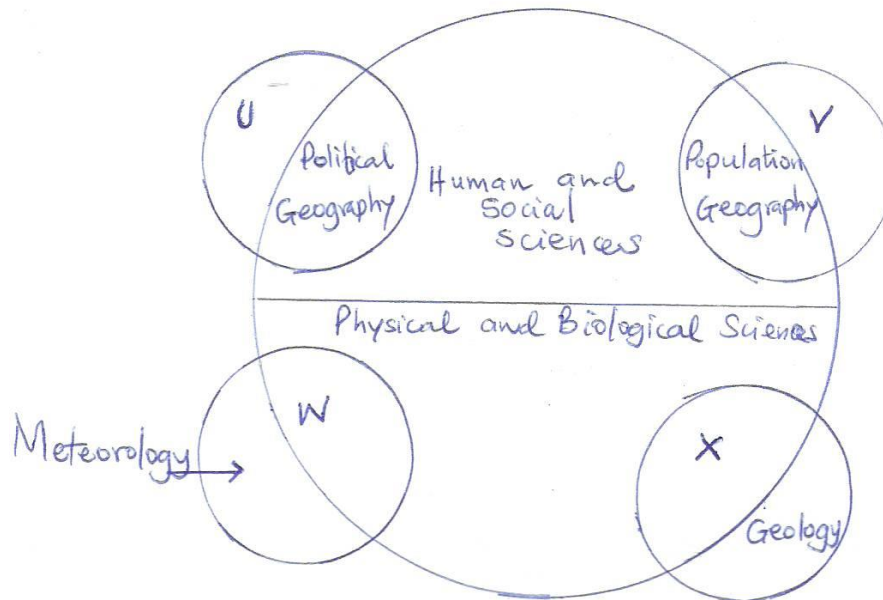
SUNSHINE SECONDARY SCHOOL MOCK 2015

GEOGRAPHY PAPER 1

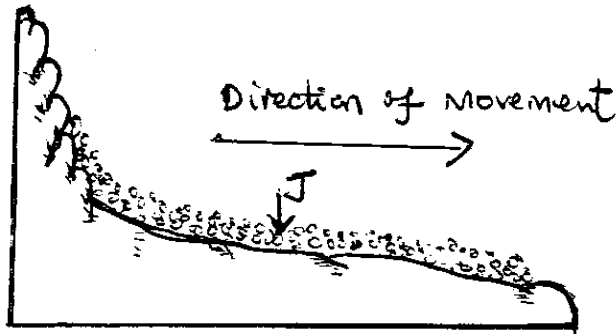
SECTION A

Answer all the questions in this section.

- (a) State two reasons why Geography is a unique subject. (2 mks)
(b) The diagram below shows the relationship between geography and other disciplines.



- Name the disciplines marked U, V, W and X. (4 mks)
- (a) If a given parcel of air at 35°C contains 15.5 gm/m^3 of moisture and the given air can hold a maximum of 20 gm/m^3 at the same temperature, calculate the relative humidity. (2 mks)
(b) Draw a well labelled diagram to illustrate a mercury Barometer. (3 mks)
 - (a) Study the diagram below showing mass wasting.



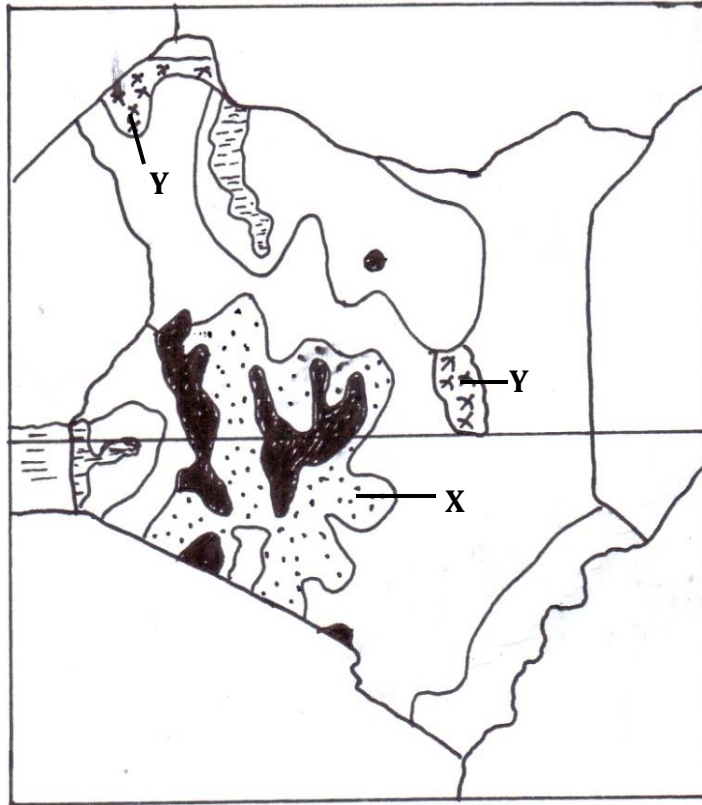
- (i) Name the mass wasting process in the diagram. (1 mk)
- (ii) Name the part marked J. (1 mk)
- (b) State three effects of this process on the landscape. (3 mks)
4. (a) Define a lake. (2 mks)
- (b) State three effects of a lake on the climate of the surrounding areas. (3 mks)
5. (a) Name two surface features found in a Karst region. (2 mks)
- (b) State three conditions necessary for the formation of a Karst scenery. (3 mks)

SECTION B

Answer question 6 and any other TWO questions from this section.

6. Study the map of Kitale 1:50,000 (sheet 75/3) provided and answer the following questions.
- (a) (i) Name two districts found in the area covered by the map. (2 mks)
- (ii) What is the magnetic variation of the map? (1 mk)
- (b) (i) Convert the scale of the map into a statement scale. (2 mks)
- (ii) Calculate the area of land to the North and North East of the Loose Surface road C637 and B10/2 in the North Eastern corner of the map. (Give your answer in square kilometers). (2 mks)

- (iii) Measure the distance of the Loose Surface Road C638 from grid reference 400137 and reference 472106. (Give your answer in Kilometres). (2 mks)
- (c) Explain three factors which have influenced the distribution of settlements in the area covered by the map. (6 mks)
- (d) Describe the relief of the area covered by the map. (4 mks)
- (e) Citing evidence from the map, explain three factors that favour cattle rearing in Kitale area. (6 mks)
7. (a) (i) What is faulting? (2 mks)
- (ii) Apart from normal fault and reversed faults, name three other types of faults. (3 mks)
- (b) (i) Apart from tensional forces, explain two other causes of faulting. (4 mks)
- (ii) With the aid of well-labeled diagrams, describe how a rift valley was formed by tensional forces. (8 mks)
- (c) Explain four effects of faulting on drainage. (8 mks)
8. (a) Explain how the following factors influence the distribution of vegetation.
- (i) Climate (2 mks)
- (ii) Human beings (2 mks)
- (b) The map below shows some vegetation zones of Kenya. Use it to answer question (i).



- (i) Name the vegetation zone marked X and Y. (2 mks)
- (ii) Give two uses of Savannah vegetation. (2 mks)
- (iii) Describe the characteristics of Mediterranean type of vegetation. (5 mks)
- (c) Explain three ways in which desert vegetation adapts to climatic conditions. (6 mks)
- (d) You are planning to carry out a field study of the vegetation within the local environment.
- (i) State three preparations you will make for the field study. (3 mks)
- (ii) How will you identify the different types of vegetation? (3 mks)
9. (a) (i) Distinguish between river discharge and river regime. (2 mks)
- (ii) Describe how a river erodes through the following processes:- (3 mks)
- Abrasion

- Solution (2 mks)

(b) Describe how the following features are formed:

(i) Gorge, when a waterfall retreat (4 mks)

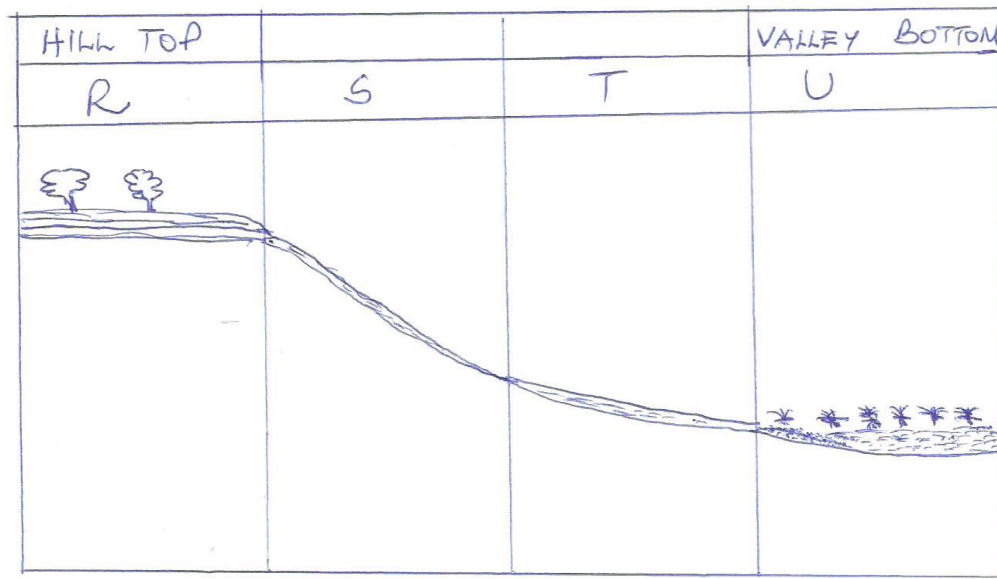
(ii) River braids (4 mks)

(c) State four characteristics of a river in the old stage. (4 mks)

(d) Explain three significance of a river to human activities. (6 mks)

10. (a) What is soil profile? (1 mk)

(b) The diagram below shows a soil catena.



- (i) Name the type of soils found in position R and U. (2 mks)
- (ii) State two characteristics of soils found in section marked.
- I. R (2 mks)
- II. U (2 mks)
- (c) (i) Name two components of soil. (2 mks)
- (ii) Differentiate between soil structure and soil texture. (2 mks)
- (d) Explain how the following factors influence soil formation.
- (i) Climate (4 mks)
- (ii) Vegetation (4 mks)
- (e) Explain how the following practices cause soil degeneration.
- Burning (2 mks)
- Leaching (2 mks)
- Over-application of fertilizers (2 mks)