**312/1**

**GEOGRAPHY**

**Paper 1**

**JULY/AUGUST 2016**

**Time: 2¾ hours**

**BARINGO COUNTY EDUCATIONAL IMPROVEMENT EXAMINATION - 2016**

**Kenya Certificate of Secondary Education**

**312/1**

**Paper 1**

**GEOGRAPHY**

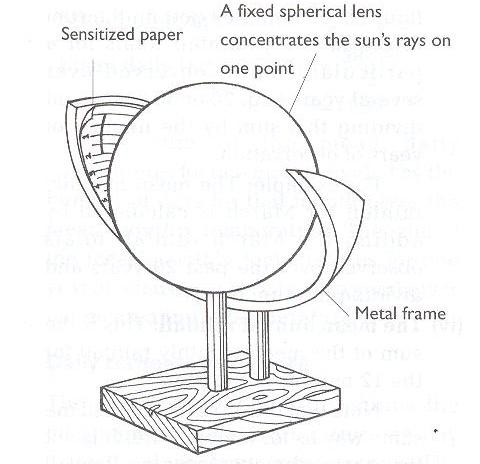
**INSTRUCTIONS TO STUDENTS**

* *This paper has* ***two*** *sections* ***A*** *and* ***B***
* *Answer* ***ALL*** *the questions in section* ***A****. In section* ***B*** *answer questions* ***6*** *and any other* ***TWO*** *questions.*

**SECTION A**

*Answer* ***all*** *the questions in this section.*

1. The diagram below shows a weather instrument. Use it to answer the question below.



(a) Identify the weather instrument shown above. (1 mark)

(b) Describe how the instrument is used to measure the weather conditions of the day. (4 marks)

2. (a) What are hypabyssal rocks? (2 marks)

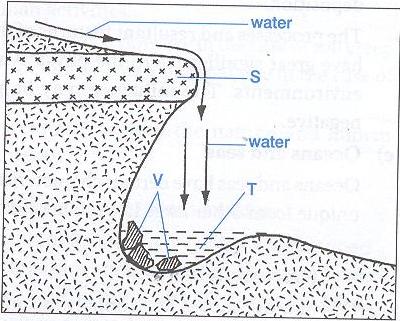
(b) State ***three*** characteristics of sedimentary rocks. (3 marks)

3. (a) Give ***two*** examples of features resulting from fissure eruption. (2 marks)

(b) With aid of a diagram, describe how a basic lava dome is formed. (3 marks)

4. (a) State ***three*** conditions necessary for a river capture to occur. (3 marks)

(b) Use the diagram below to answer the questions that follow.



Name the parts labeled **E** and **F.** (2 marks)

5. (a) Differentiate between a soil profile and a soil catena. (2 marks)

(b) Give ***three*** ways in which soil is degenerated. (3 marks)

**SECTION B**

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

6. Study the map of Busia 1:50,000 (sheet 101/1) provided and answer the following questions.

(a) (i) What is the vertical interval of the map? (1 mark)

(ii) Give the height of Burende Hill on grid square 3135. (2 marks)

(iii) Identify ***two*** man made features on grid square 2431. (2 marks)

(iv) Measure the distance of the All Weather loose surface road from the junction at Odiado southwards to Ukwala. (Give your answer in kilometers).

(b) (i) Draw a cross section from grid reference 260330 to 340330. Use a vertical scale of 1cm to represent 40m. On it mark and name; (8 marks)

* Odiodo Hill.
* All weather road loose surface
* A river

(ii) Calculate the vertical exaggeration of the section. (2 marks)

(ii) Are the two points intervisible? Give a reason. (2 marks)

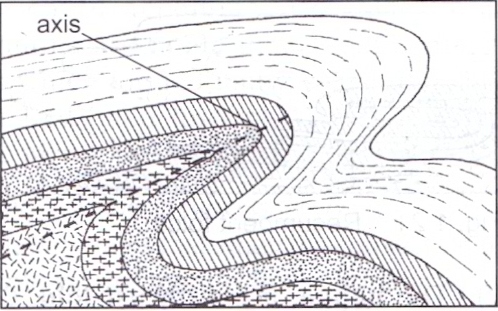
(c) Citing evidence from the map, explain ***three*** factors that have influenced the distribution of settlement in the area covered by the map. (6 marks)

7. (a) (i) What is folding? (2 marks)

(ii) Name ***three*** fold mountains formed during the Alpine Oregeny. (3 marks)

(b) State ***four*** characteristics of a folded landscape. (4 marks)

(c) The diagram below shows a type of fold.



(i) Name the type of fold. (1 mark)

(ii) Describe how the above type of fold is formed. (7 marks)

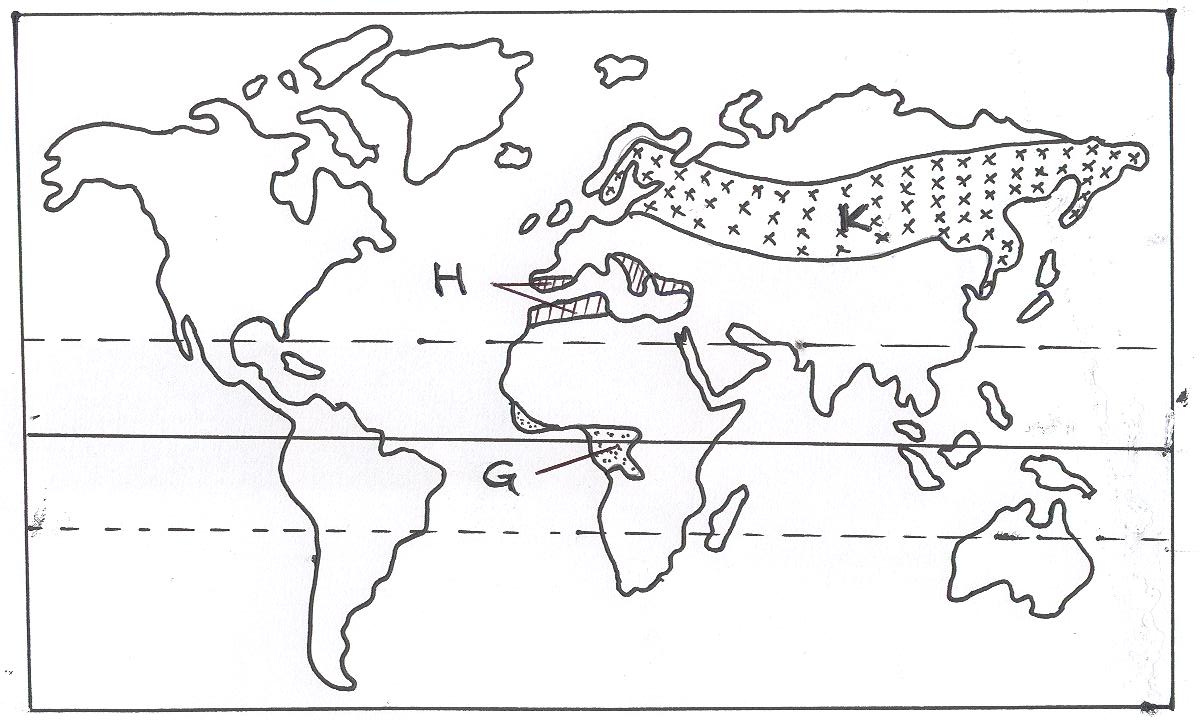
(d) Explain ***four*** effects of fold mountains on human activities. (8 marks)

8. (a) (i) What is vegetation? (2 marks)

(ii) Describe the variation of vegetation types along a mountain slope from the bottom to the top. (5 marks)

(b) Explain ***two*** ways in which relief influences the distribution of vegetation. (4 marks)

(c) Study the world map below and answer the questions that follow:



**Y**

**Y**

**X**

**W**

(i) Name the vegetation types labeled **W, X** and **Y.** (3 marks)

(ii) Explain ***three*** ways in which desert vegetation has adapted to the climatic conditions of the region it is found. (6 marks)

(d) Students are planning to undertake a field study in a forest near their school. They are required to prepare a working schedule.

(i) What is a working schedule? (2 marks)

(ii) Why is it important for the students to prepare a working schedule? (3 marks)

9. (a) (i) Apart from rainfall, list ***two*** other forms of precipitation. (2 marks)

(ii) State ***three*** factors that influence the occurrence of surface run off. (3 marks)

(b) (i) What is a lake? (2 marks)

(ii) Give ***five*** reasons why some lakes have fresh water. (5 marks)

(iii) State ***three*** characteristics of lakes formed due to faulting. (3 marks)

(c) (i) Describe how lake Victoria influence the weather of the surrounding lands. (4 marks)

(d) Give ***two*** factors which determine the size of a lake. (2 marks)

10. (a) (i) Give ***two*** sources of mineral salts in Ocean water. (2 marks)

(ii) Describe ***three*** processes involved in marine erosion. (6 marks)

(b) Using well labeled diagrams, describe how a stack is formed. (6 marks)

(c) Describe ***three*** ways in which Islands are formed. (6 marks)

(d) State ***five*** ways in which Kenya benefits from her coastal features. (5 marks)