

312/1

GEOGRAPHY

Paper 1

JUNE 2014

Time: 2¾ hours

KASSU-JET JOINT EXAMINATION

Kenya Certificate of Secondary Education

312/1

Paper 1

GEOGRAPHY

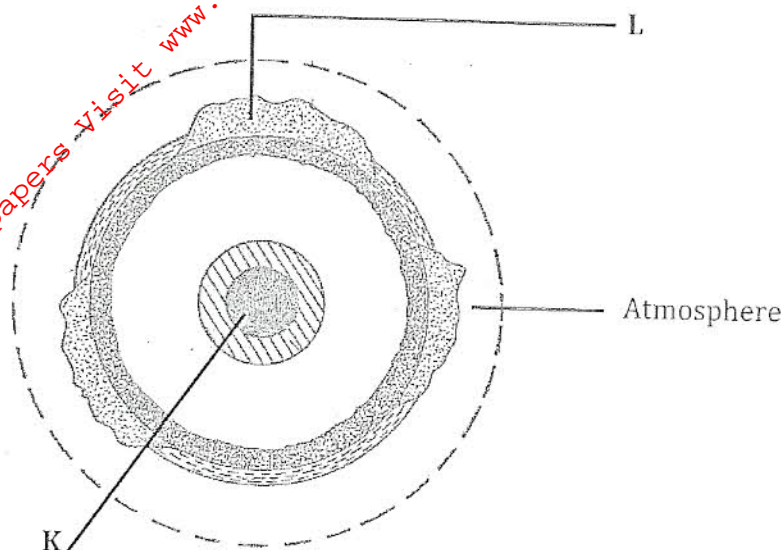
INSTRUCTIONS TO STUDENTS

- 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.

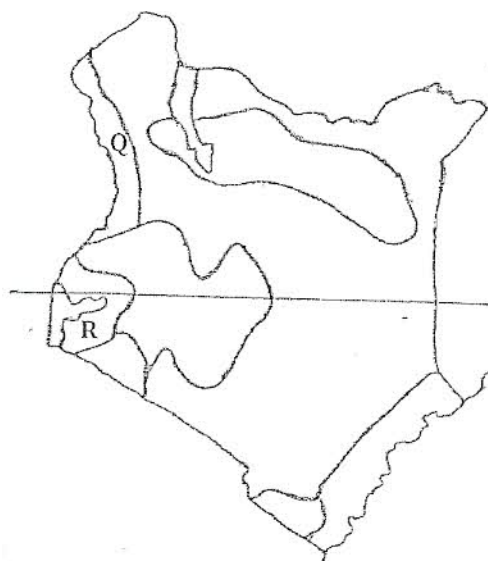
SECTION A

Answer all the questions in this section.

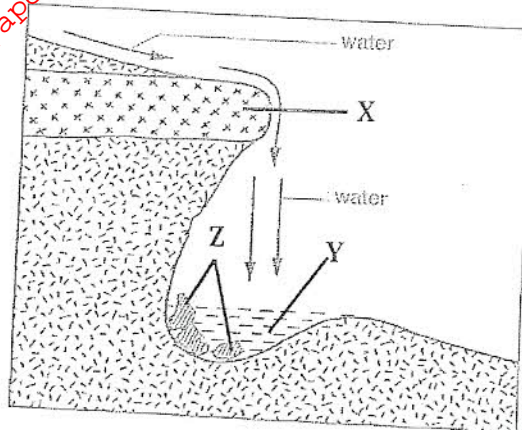
1. The diagram below shows the structure of the earth.



- (a) Name the parts marked K and L. (2 marks)
- (b) Describe the composition of the mantle. (3 marks)
2. (a) State *two* factors influencing atmospheric pressure on the earth's surface. (2 marks)
- (b) Describe how a rain gauge is used to measure the amount of rainfall. (3 marks)
3. The map below shows climate regions in Kenya. Use it to answer question (a) and (b).



- (a) Name the climatic regions Q and R. (2 marks)
- (b) Give **three** characteristics of the climate in the region marked R. (3 marks)
4. (a) Distinguish between block disintegration and exfoliation. (2 marks)
- (b) State **three** economic benefits of weathering process. (3 marks)
5. (a) The diagram below shows a waterfall. Name the parts marked X, Y and Z. (3 marks)



- (b) Give **two** ways in which a gorge may be formed. (2 marks)

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) What is the six figure grid reference of the trigonometrical station in Kitale DC. (2 marks)
- (ii) Give **two** districts found in the area covered by the map. (2 marks)
- (iii) Measure the distance of Suwerwa river in the South Western part of the area covered by the map. (Give your answer in kilometers) (2 marks)
- (iv) Calculate the area of land covered by Kitale Municipality. (Give your answer in square kilometers). (2 marks)

- (b) Using a vertical scale of 1cm represent 100metres draw a cross section along northing 28 from Easting 35 to Easting 41. (2 marks)

- (i) On the cross section mark and name.

- Footpath (1 mark)
- River Saiwa (1 mark)
- Steep slope (1 mark)

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

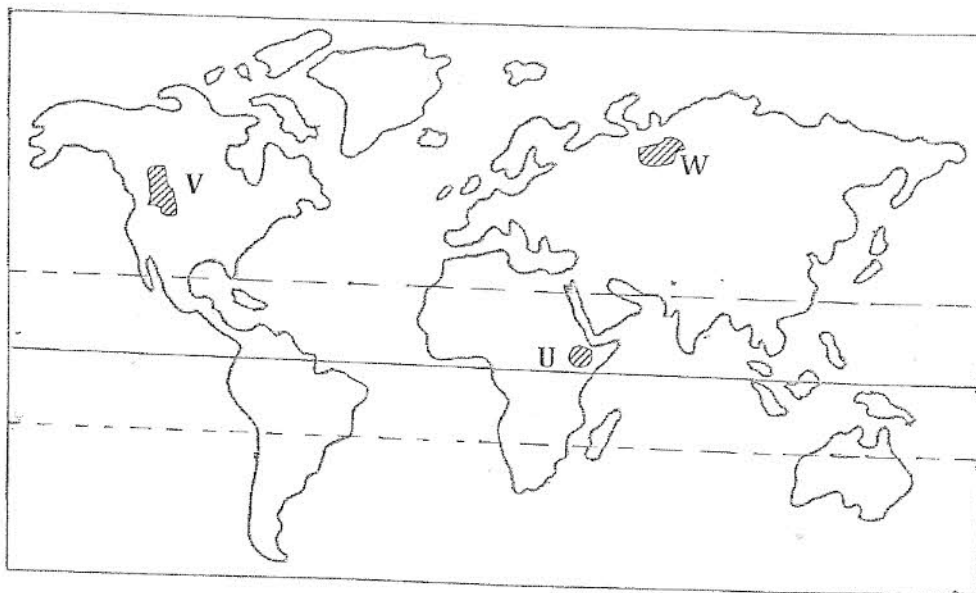
- (c) Describe the relief of the area covered by the map. (4 marks)

- (d) Citing evidence from the map, give **three** reasons why cattle rearing is carried out in Kitale area. (6 marks)

7. (a) (i) Differentiate between Orogenic and Epierogenic forces. (2 marks)

- (ii) Describe how isostatic adjustment causes earth movements. (4 marks)

- (b) The world map below shows major volcanoes. Use it to answer question (i)



- (i) Name the volcanoes marked U, V and W. (3 marks)

- (ii) Give an example of a Lava plateau in Kenya. (1 mark)

- (c) Using a well labeled diagram, describe how a batholith is formed. (7 marks)

- (d) Explain **four** significance of volcanicity to human activities. (8 marks)