

312/1
GEOGRAPHY
Paper 1
July/August 2016
Time: 2³/₄ Hours

WESTLANDS SUB-COUNTY JOINT EVALUATION
Kenya Certificate of Secondary Education

GEOGRAPHY
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INSTRUCTIONS TO CANDIDATES

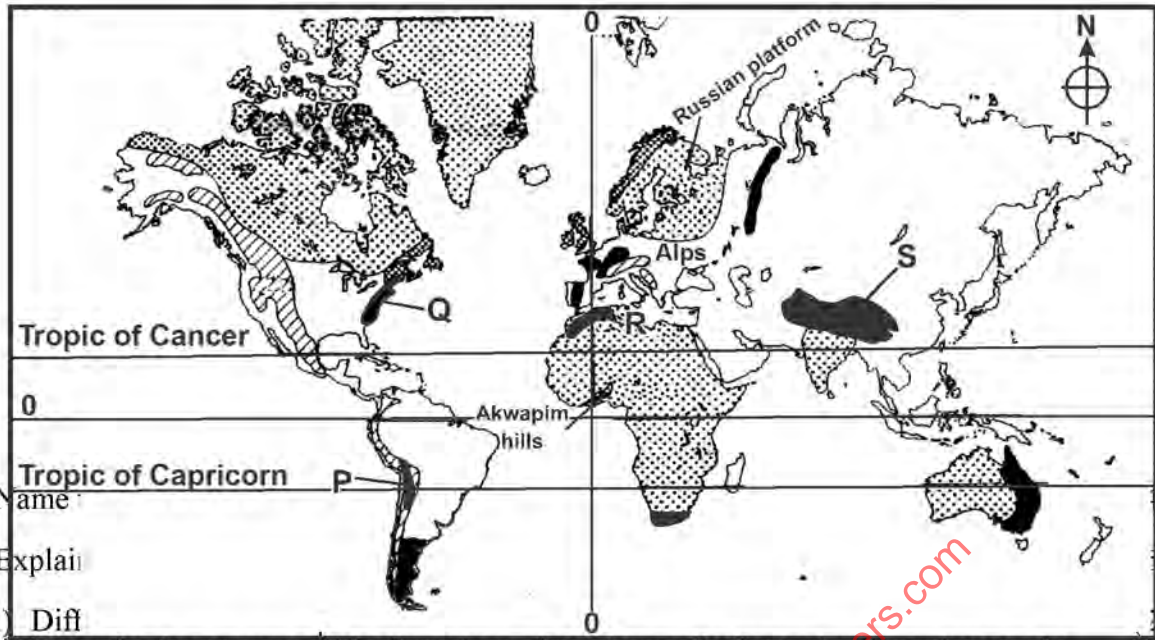
- * This paper consists of two sections; A and B
- * Answer **all** questions in section A
- * In section B answer question **6** and any other **two** questions.
- * All answers must be written in the answer booklet provided.
- * Candidates should answer the questions in English.

SECTION A :
Answer all questions.

1. a) State three effects of the revolution of the earth. (3 marks)
b) The local time of town Y at 37° is 10.00a.m. What will be the time at town X longitude 10°W. (2 marks)
2. a) What is desertification ? (2 marks)
b) State three negative effects of desertification in Kenya. (3 marks)
3. a) Give three reasons why some lakes in Rift Valley are saline. (3 marks)
b) Identify two natural ways in which lakes are formed. (2 marks)
4. a) State three natural causes of earthquakes. (3 marks)
b) Give two effects of earthquakes in built up areas. (2 marks)
5. a) State two reasons why wind action is more effective in the hot desert. (2 marks)
b) Name three features resulting from wind erosion in desert areas. (3 marks)

SECTION B :
Answer question 6 and any other two questions.

6. Study the map of Busia 1 : 50,000 (sheet 101/1) provided and answer the following questions.
 - i) Give the height of Odiado hill. (1 mark)
 - ii) Give the bearing of Ndanyi hill at grid square 3030 from Kanzala hill at grid square 2837. (2 marks)
 - iii) Measure the length of provincial boundary from grid reference 263280 to grid reference 340289. Give your answer in kms and meters. (2 marks)
 - b) i) Using a vertical scale of 1cm to represent 20 metres, draw a cross section from grid reference 244368 to grid reference 318338. (3 marks)
On it mark and label the following features : (3 marks)
 - All weather road loose surface
 - Nanginigini hill
 - A riverii) Determine the intervisibility of the cross section. (1 mark)
 - c) Describe the drainage of the area covered by the map. (4 marks)
 - d) Citing evidence from the map, give three social services offered in the area covered by the map. (3 marks)
 - f) Explain three factors that have influenced trading activities in the area covered by the map. (6 marks)
7. a) i) What is folding. (2 marks)
ii) Differentiate between an overfold and a recumbent fold. (2 marks)
b) i) Apart from fold mountain, name three other features resulting from folding. (3 marks)
ii) With aid of well labelled diagrams, describe the formation of fold mountains. (8 marks)
c) The map below show the location of some fold mountains.



8. a) i) Diff (3 marks)
 ii) Describe the process of the formation of mechanically formed sedimentary rocks. (5 marks)
 iii) Give two types of mechanically formed sedimentary rocks. (2 marks)
- b) i) State three ways in which metamorphic are formed. (3 marks)
 ii) Fill in the table below. (3 marks)

c) Explain three ways in which rocks contribute to the Kenyan economy. (6 marks)

d) You are planning to carry out a field study on types of rocks around your school.
 i) Name two Sandstone you would use to collect data..... (2 marks)
 ii) State two problems you are likely to encounter during your field study. (2 marks)

9. a) i) What is soil catena? (2 marks)
 ii) Draw a well labelled diagram to show a well developed soil profile. (4 marks)
 iii) State three characteristics of soil found in the arid regions of Kenya. (3 marks)

b) i) Differentiate between soil structure and soil texture. (2 marks)
 ii) Explain how the following factors influence soil formation
 - topography (2 marks)
 - parent material (2 marks)
 - time (1 mark)

c) Explain how the following farming practices causes soil erosion.
 i) Topography (2 marks)
 ii) Continuous application of fertilizer on farm lands. (2 marks)
 iii) Monoculture (2 marks)

d) State three significance of soils. (3 marks)

10. a) i) Define the term river divide. (2 marks)
 ii) State three processes through which river erode its channel. (3 marks)

- b) i)** Give four ways in which river transport its loads. (4 marks)
ii) With aid of well labelled diagrams describe how a river meander is formed. (6 marks)
- c) i)** What is a river capture. (1 mark)
ii) Describe how a river capture occurs. (3 marks)
- d) You are intending to carry out a field study along the lower course of a river.**
i) Give two reasons why you would require a route map. (2 marks)
ii) State two characteristics of a river at the old stage that you are likely to observe during the field study. (2 marks)
iii) Give two follow up activities you would be involved in after the field study. (2 marks)

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