

NAME INDEX NUMBER

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DATE

12/1
GEOGRAPHY
Paper 1
July/August 2016
Time: 2³/₄ Hours

NYANDARUA SOUTH FORM FOUR JOINT EVALUATION
Kenya Certificate of Secondary Education (K.C.S.E)

GEOGRAPHY
Paper 1
July/August 2016
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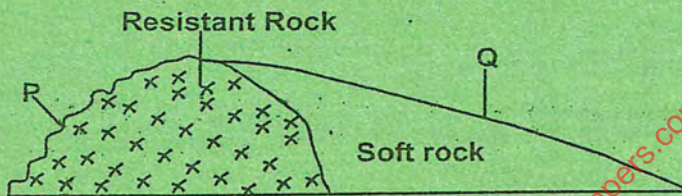
INSTRUCTIONS TO CANDIDATES

- a) This paper consists of two sections; A and B.
- b) Answer all questions in section A.
- c) In section B answer question 6 and any other two questions.

SECTION A

Answer ALL questions in this section.

1. a) What is a constructive wave? (2 marks)
b) State **three** conditions necessary for the formation of a beach. (3 marks)
2. a) Give **two** effects of the revolution of the earth. (2 marks)
b) Describe how a lunar eclipse is formed. (3 marks)
3. a) Differentiate between plutonic and volcanic rocks. (2 marks)
b) Name **three** features of intrusive vulcancity. (3 marks)
4. a) What is a longitude? (2 marks)
b) The time at town Y on longitude 75°W is 12.00noon. What will be the time at town Z on longitude 36°E ? (2 marks)
5. Study the diagram below and answer the questions that follow.



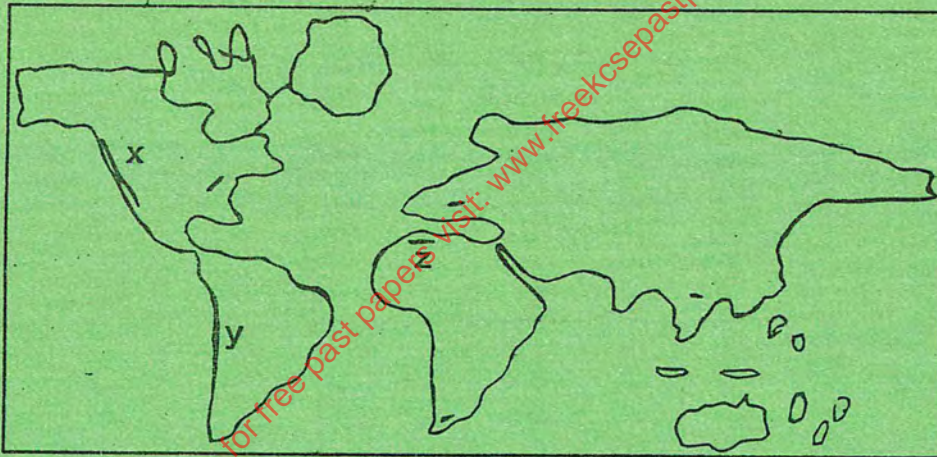
- a) Name the parts marked P and Q. (2 marks)
- b) State **four** negative effects of glaciations. (4 marks)

SECTION B

Answer question 6 and any other two questions.

6. Study the map of Busia 1:50,000 sheet 101/1 and answer the questions that follow.
 - a) i) Give the six figure grid reference for the school at Budokomi. (2 marks)
 - ii) Measure the length of the all weather loose surface road from grid-reference 208320 to the junction at grid reference 296405. (2 marks)
 - iii) Calculate the bearing of the junction at Odiado grid square 2731 from Air photo principal point grid square 3134. (2 marks)
 - iv) Give the magnetic variation of the map as at January 2016. (1 mark)
 - b) i) Using a scale of 1cm represents 100m, draw a cross-section along easting 33 from northing 25 to easting 32.
On it show;
 - Odiado hill
 - Samia ridge
 - Regional boundary
 - Road(7 marks)
 - ii) Calculate the vertical exaggeration of the cross-section. (2 marks)
 - c) Citing evidence from the map state **three** social services offered in the area covered by the map. (3 marks)
 - d) Describe the drainage of the area covered by the map. (6 marks)

7. a) i) List **three** external land forming processes which lead to formation of lakes. (3 marks)
 ii) State **three** sources of water in lakes. (3 marks)
- b) i) Describe how a caldera lake is formed. (6 marks)
 ii) Give **three** reasons why some lakes in the Rift Valley in Kenya are saline. (3 marks)
- c) Explain **two** ways how lake Victoria influences the climate of the surrounding areas. (4 marks)
- d) You intend to carry out a field study on a man made lake.
 i) State **three** preparations you would make. (3 marks)
 ii) Give **three** methods you would use to record the findings. (3 marks)
8. a) Name **three** resultant features of wind erosion in deserts. (3 marks)
- b) i) State **three** factors that influence transportation of materials in deserts. (3 marks)
 ii) Explain **three** ways through which wind transport its load in deserts. (6 marks)
- c) With the aid of a well labelled diagrams describe how the following features are formed.
 i) Barchan (5 marks)
 ii) Mesas (4 marks)
- d) State **four** positive effects of desert features. (4 marks)
9. Study the world map below and answer question a(i).



- a) i) Name the fold mountain ranges marked X, Y and Z. (3 marks)
 ii) Name **four** types of folds. (4 marks)
- b) i) Differentiate between a syncline and an anticline in a fold. (2 marks)
 ii) Describe how fold mountains were formed. (5 marks)
- c) i) Give **three** theories that have been put forward to explain the formation of fold mountains. (3 marks)
 ii) Explain **four** positive significance of folding to human activities. (8 marks)

10. a) i) What is a river? (1 mark)
ii) List down **three** types of river erosion. (3 marks)
- b) Explain **three** factors which influence the rate of river erosion. (6 marks)
- c) i) Describe **three** ways in which river erosion may cause formation of river gorges. (6 marks)
ii) Apart from gorges name **two** other features formed by river erosion. (2 marks)
- d) Form **three** students from your school carried out a fieldwork of a river in its old stage.
i) Give **three** features of the river they are likely to see. (3 marks)
ii) Give **two** objectives they would have formulated. (2 marks)
iii) Give **two** reasons why it was necessary for them to prepare a working schedule. (2 marks)

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