

312/1
GEOGRAPHY
Paper 1
July/August 2009
2 ¾ Hours

BORABU INTER - SECONDARY SCHOOL
JOINT EVALUATION TEST - 2009
Kenya Certificate of Secondary Education (K.C.S.E)

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GEOGRAPHY
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Instructions to candidates

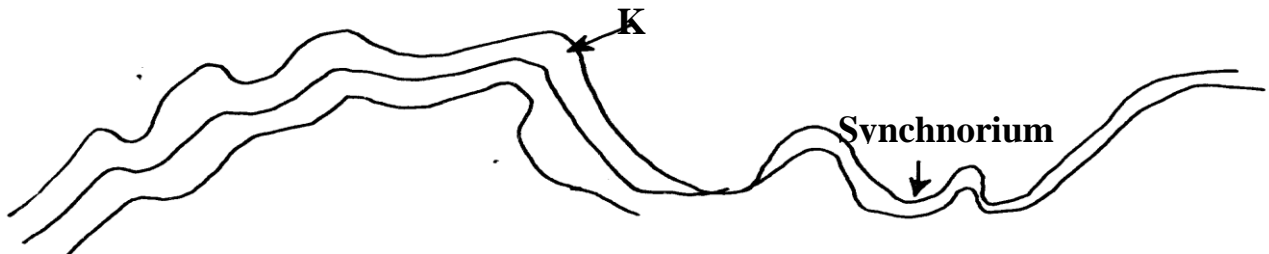
This paper has **TWO** sections **A**, and **B**

Answer **ALL** questions in sections **A** in section **B** answer question **six** and **any** other **two** questions
ALL answer must be written in the answer booklet provided.

This paper consists of 4 printed pages
Candidates should check the question paper to ensure
that all the pages are printed as indicated and no questions are missing

SECTION A

1. (a) Name the **three** transitional zones of the atmosphere (3mks)
(b) Give **two** reasons why cloud concentration is higher in the troposphere (2mks)
2. (a) State **three** sources of underground water (3mks)
(b) State **two** ways in which underground water may reach the surface of the earth (2mks)
3. (a) What are the conditions for the occurrence of saline lakes in the rift valley (3mks)
(b) State **two** ways in which lakes are formed naturally (2mks)
4. (a) Apart from secondary waves name two other types of waves generated by an earth quake (2mks)
(b) (i) State **two** characteristics of S waves generated by an earthquakes (2mks)
(ii) Name the instrument that measures seismic waves (1mk)
5. (a) The diagram below shows a folded region name the feature marked K. (1mk)

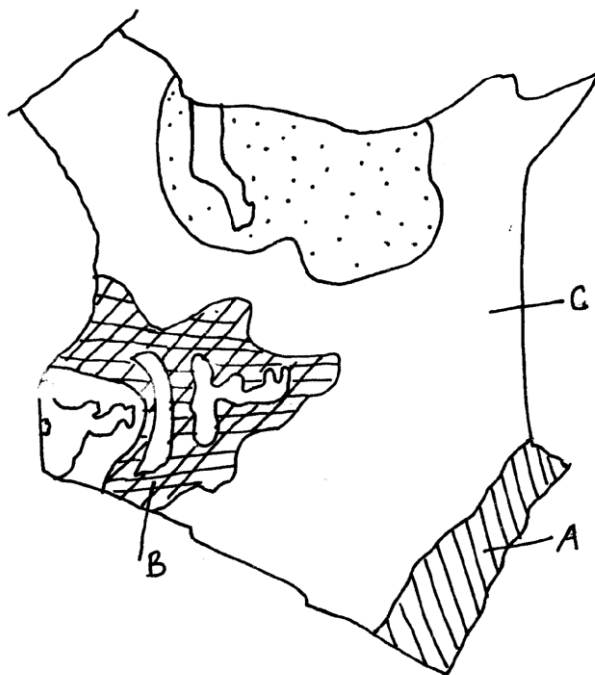


- (b) (i) Name any **two** fold mountains in the world outside the continent of Africa and identify the continent(s) where they are found. (2mks)
(ii) What is temperature inversion (2mks)

SECTION B

6. Study the map of Kericho 1:50,000 provided and answer the following questions
 - (a) (i) Identify **two** manmade features in grid square 6364 (2mks)
(ii) What is the direction of the power station on grid square 5258 from Kimungu tea estate. (1mk)
(iii) Give six figure grid reference of the trigometrical station near Ainamoi (1mk)
 - (b) Measure the distance of the all weather road from the culvert near Kapkiam to the end North of the map. Give your answer in kilometers (2mks)
 - (c) (i) Assuming that 1 dot represents 50 persons, calculate the population density in grid square 6859 (2mks)
(ii) Name **two** human activities carried out in the area covered by the map South of Northing 63 (2mks)

- (d) (i) Draw a cross section along Northing 61 from Easting 52 to Easting 58. Use v.s 1cm rep 100m (6mks)
- (ii) On the cross-section mark a river (1mk)
- (e) Students of Poiywak School carried out a field study on settlement of the area covered by the map extract.
- (i) State any **two** objectives of their study (2mks)
- (ii) Name any **two** types of settlement pattern they may have identified (2mks)
- (iii) State any **two** methods they used to collect data (2mks)
- (iv) State any **one** factor responsible for the settlement pattern in the region they identified (1 mk)
- (v) State **one** problem they may have encountered during the field study (2mks)
7. (a) What is a plant community? (1mk)
- (b) Explain three factors that have led to a decline of natural grassland in Kenya. (6mks)
- (c) Use the map of Kenya below and answer questions that follow.



- (i) Name the vegetation types marked A, B and C (3mks)
- (ii) State **six** characteristics of the vegetation type labeled B (6mks)
- (d) You carried a field study on vegetation in your district
- (i) Why was it necessary for you to conduct a reconnaissance? (2mks)
- (ii) Name **three** methods you used in recording data (3mks)
- (iii) Name **two** tree species you identified during the field study (2mks)
- (iv) Name **two** types of maps you used in recording your findings (2mks)

8. (a) Differentiate between aridity and desertification (2mks)
- (b) Name **three** types of desert surfaces (3mks)
- (c) Using well labeled diagrams explain the formation of the following desert features
- (i) Barchan (3mks)
- (ii) Zeugens (3mks)
- (d) (i) Explain the role played by ocean currents in enhancing aridity (4mks)
- (ii) Give three examples of ocean currents and name the arid areas that result from their influence (3mks)
- (e) (i) Name **three** processes involved in wind erosion in deserts (3mks)
- (ii) What is the significance of desert features to man (4mks)
9. (a) Give **four** characteristics of desert soils (4mks)
- (b) How does elluviation contribute to the soil degeneration (4mks)
- (c) Draw a well labeled diagram of a mature soil profile (5mks)
- (d) Explain four ways in which human activities contribute to soil degeneration (4mks)
- (e) Students in a school in Baringo district carried out a field study on soil erosion in the district
- (i) How will their findings benefit the farmers/residents of the district (6mks)
- (ii) Give **two** methods they used to pass the information to the farmers (2mks)
10. (a) State and explain **two** causes of faulting (4mks)
- (b) Explain **three** ways in which faulting can influence drainage system (6mks)
- (c) Describe the effect of a rift valley on the following
- (i) Transport (3mks)
- (ii) Agriculture (3mks)
- (d) (i) Describe how block mountains influence climate (4mks)
- (ii) Give **three** significances of faulting to human activities (3mks)
- (e) Differentiate between a symmetrical fold and an asymmetrical fold (2mks)