

332/1
GEOGRAPHY
Paper 1
July, 2014
2 ¾ hours



ALLIANCE GIRLS HIGH SCHOOL MOCK
Kenya Certificate of Secondary Education
GEOGRAPHY
Paper 1
2 ¾ hours

Instructions to candidates

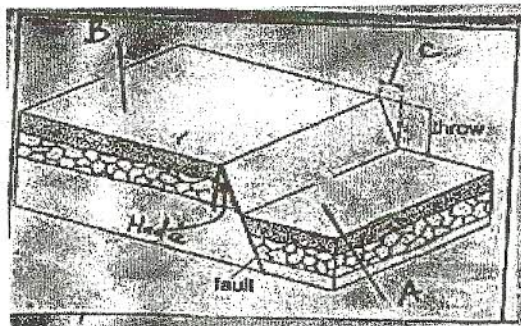
- a) This paper consists of two sections: A and B
- b) Answer **ALL** the questions in Section A. In Section B answer question 6 and any two other questions.
- c) All answers **must** be written in the answer booklet provided.
- d) This paper consists of 4 printed pages
- e) Candidates should check the question paper to ascertain that **all** the pages are printed as indicated and that **no** questions are missing.

SECTION A: Answer ALL questions in this section

1. a) What is meant by the term equinox? (2mks)
b) List **three** effects of the rotation of the earth. (2mks)
2. a) Give **two** factors that determine the amount of solar radiation that reaches the earth surface. (2mks)
b) Give **three** characteristics of the Inter Tropical Convergence Zone. (3mks)
3. a) State **two** factors that influence soil leaching. (2mks)
b) State **three** ways in which vegetation protect soil from being eroded. (3mks)
4. a) Differentiate between infiltration and percolation. (2mks)
b) Identify **three** features that result from the action underground water. (3mks)
5. a) Identify **three** characteristics of karst landscape. (3mks)
b) State **three** reasons why there are few settlements in a karst landscape. (3mks)

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

6. Study the map of Taita Hills 1:50,000 provided and answer the following questions.
- a) (i) Give the longitudinal extent of the area covered by the map. (2mks)
(ii) Give the six figure grid reference of the church at Mraru on the N.W part of the area Covered by the map. (2mks)
- b) (i) Measure the length of the railway line East of Easting 39. (2mks)
(ii) Calculate the area of Ronge Forest. Give your answer in Kilometres. (2mks)
- c) (i) Citing evidence from the map, identify three functions of Wundanyi town. (6mks)
(ii) Describe **three** factors that have influenced the distribution of settlements in the area Covered by the map. (6mks)
- d) Describe the relief of the area covered by the map. (5mks)
7. The diagram below shows a faulted landform.



- a) (i) Name the parts labeled A, B and C. (3mks)
(ii) Differentiate between a tilt block and a fault step. (2mks)

b) Using well labeled diagrams, describe the formation of a fault scarp through tensional forces. (7mks)

c) Explain **three** effects of faulting on landscape and drainage. (6mks)

d) You intend to carry out a field study in an area that has undergone faulting.

(i) Formulate **three** possible hypothesis for the study. (3mks)

(ii) Apart from Rift Valley, name four other landforms you may have studied (4mks)

8. a) (i) Differentiate between an ocean and a sea. (2mks)

(ii) Give **two** causes of tides. (2mks)

b) Describe the formation of the following features.

(i) An Arch (5mks)

(ii) A tombolo (5mks)

c) Describe how waves transport materials along the coast. Illustrate your answer.(7mks)

d) State **four** negative effects of coastal features. (4mks)

9. Describe how a river erodes its channel by the following processes.

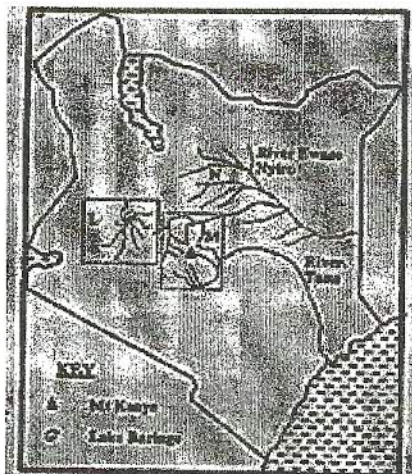
a) (i) Hydraulic action. (4mks)

(ii) Abrasion. (4mks)

b) (i) Explain **three** factors that lead to river rejuvenation. (6mks)

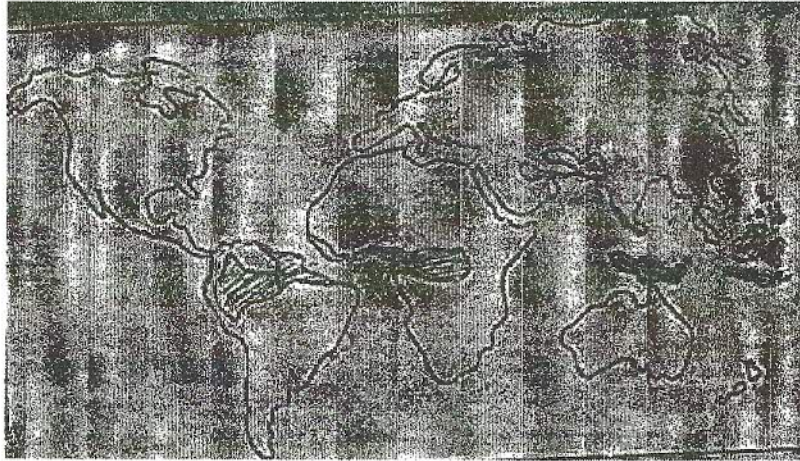
(ii) Describe the process of a river capture. (4mks)

c) Use the diagram below to answer question c (i)



(i) Identify the drainage patterns marked L, M and N. (3mks)

- d) (i) You intend to carry out a field study on rivers around the school vicinity. Identify two activities you are likely to carry out. (2mks)
(ii) Give **two** problems you are likely to encounter during your field study. (2mks)
10. a) (i) State **two** characteristics of convectional rainfall. (2mks)
(ii) Using a well labelled diagram describe how relief rainfall is formed. (8mks)
- b) Use the world map below to answer question b (i) and (ii)



- (i) Identify the type of climate experienced in the shaded regions. (2mks)
(ii) Describe the characteristics of the climate identified in (i) above (6mks)
- c) (i) List **three** possible solutions to aridity and desertification. (3mks)
(ii) Give **four** natural causes of climate change. (4mks)