

312/1

GEOGRAPHY

Paper 1

Time: 2 ¼ hours.



ALLIANCE HIGH SCHOOL

PRE TRIAL EXAMINATION.

Kenya Certificate of Secondary Education.

MAY 2016

Geography paper 1.



INSTRUCTIONS TO CANDIDATES:

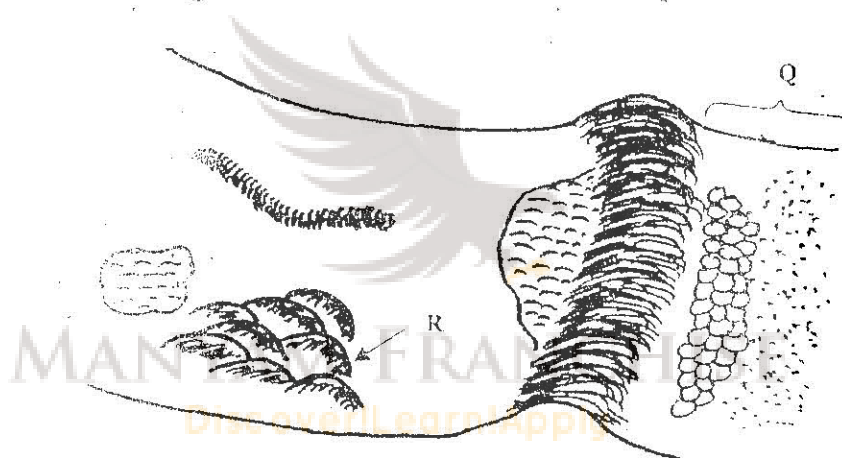
- This paper consists of two sections, A and B.
- Answer all the questions in section A.
- Answer **question 6** and any other two questions from section B.
- All answers **MUST** be written on separate answer sheets.

Section A	
6	
7	
8	
9	
10	
TOTAL	%

SECTION A.

Answer all the questions in this section.

1. a) Define geomorphology. (2marks)
b) Give two reasons why we study geomorphology. (2marks)
2. a) Differentiate between vulcanicity and volcanicity. (2marks)
b) Give two differences between volcanic ejecta and igneous rocks. (2marks)
3. a) Define the solar system. (2marks)
b) Give three characteristics of the sun. (3marks)
4. a) State two ways in which lakes are formed by deposition. (2marks)
b) Outline three factors that determine the size of a lake. (3marks)
5. a) Differentiate between a glacier and glaciation. (2marks)
b) The diagram below shows a glaciated lowland. Use to answer the questions that follow.



- (i) Identify the features marked Q and R. (2marks)
- (ii) Give three characteristics of feature R. (3marks)

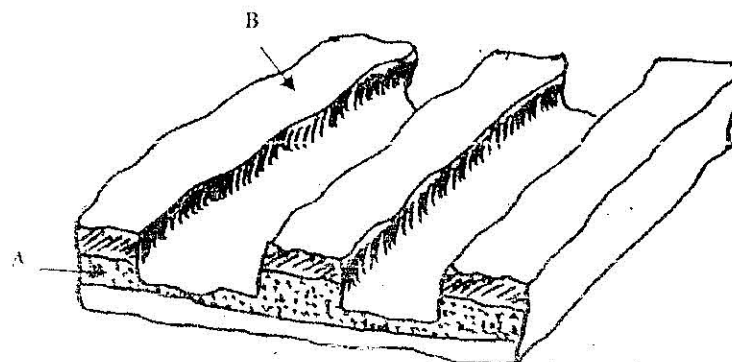
SECTION B.

Answer question 6 and any other two questions in this section.

6. Use the Busia map (1:50,000) provided to answer the questions that follow.
 - (a) (i) Give the latitudinal extent of the area covered by the map. (2marks)
(ii) Identify three physical features in grid square 2632. (3marks)
(iii) Give the six-figure grid reference of chief's office to the east of Funyula market. (1mark)
(iv) Measure the length of the international boundary from grid reference 234410 to the northern edge of the map. Give your answer in kilometers. (2marks)
 - (b) (i) Give three types of vegetation in the area to the north of northing 40. (3marks)
(ii) Calculate the bearing of Kanzala school from the peak of Odiado hill. (2marks)

- (c) Citing evidence from the map, explain three factors that may favour trade in the area covered by the map. (6marks)
- (d) (i) Using a scale of 1cm to represent 50m, draw a cross section from grid reference 245365 to grid reference 310369. (4marks)
- (ii) On the cross section, mark and name the following features:
- An all-weather road, loose surface. (2marks)
 - Riverine vegetation. (2marks)
7. (a) Define the following features:
- (i) River discharge. (1mark)
- (ii) River regime. (1mark)
- (b) (i) state three factors that may accelerate head ward erosion. (3marks)
- (ii) Apart from the features formed, give three characteristics of a river in the youthful stage. (3marks)
- (c) (i) Using a well-labelled diagram, describe the formation of river braids. (5marks)
- (ii) Explain three ways in which rivers are significant to human activities. (6marks)
- (d) Your class carried out a field study on the old stage of a river.
- (i) State three reasons why the students may decide to sample the area of study. (3marks)
- (ii) Give three ways in which they may record the data they will collect from the field. (3marks)
8. (a) (i) Differentiate between a cusped foreland and a tombolo. (2marks)
- (ii) Outline three ways in which the nature of rocks determines the nature of a coastline. (3marks)
- (b) With the aid of well-labelled diagrams, describe the formation of an atoll according to Darwin's theory. (6marks)
- (c) (i) List three features formed along an emerged lowland coast. (3marks)
- (ii) Identify three characteristics of a fjord. (3marks)
- (d) A geography class carried out a field study along a coral coast.
- (i) State two reasons why they may need to prepare a questionnaire. (2marks)
- (ii) Give three factors they may have to put into account when forming study groups for this field study. (3marks)
- (iii) Identify three human challenges they are likely to face while preparing for the study. (3marks)
9. (a) (i) Give two characteristics of a cold desert. (2marks)
- (ii) Apart from insufficient rainfall, explain three physical conditions that may lead to the formation of a tropical desert. (6marks)

(b) The diagram below represents a desert feature. Use it to answer the questions that follow.



(i) Name the features marked A and B.

(2marks)

(ii) Describe how the feature marked B is formed.

(5marks)

(c) Explain three ways in which climate is significant in the shaping the nature of deserts.

(6marks)

(d) A form four geography class carried out a field study in a desert area.

(i) Give two types of desert they are likely to have identified during the study.

(2marks)

(ii) Identify two reasons why data analysis would have been important after the study.

(2marks)

10. (a) (i) Define a mineral.

(2marks)

(ii) Describe the following characteristics of minerals:

• Lustre.

(2marks)

• Cleavage.

(2marks)

• Density.

(2marks)

(b)(i) Identify two characteristics of tuff.

(2marks)

(ii) Describe the formation of plutonic rocks.

(5marks)

(c) Explain three ways in which landforms resulting from rocks are of significance to human activities.

(6marks)

(d) A geography class carried out a field study on rocks in the area around their school.

(i) Identify two ways they could have analyzed the rock samples that they may have collected from the field.

(2marks)

(ii) State two benefits of studying rocks using fieldwork.

(2marks)