

312/1
GEOGRAPHY
PAPER 1
JULY/AUGUST 2010
TIME: 2 ¾ HOURS

BUTERE DISTRICT JOINT EVALUATION TEST – 2010
Kenya Certificate of Secondary Education (KCSE)

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INSTRUCTIONS TO THE CANDIDATES

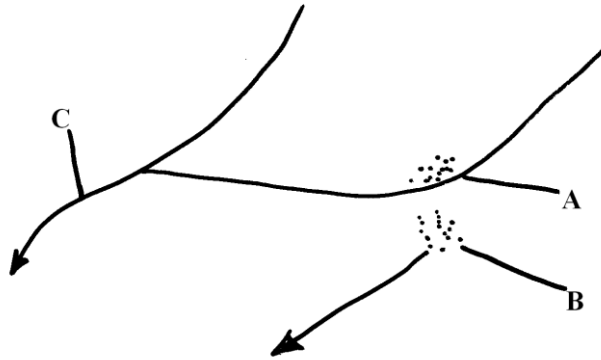
- This paper has two sections: A and B.
- Answer **ALL** questions in section A.
- In section B answer question 6 and two other questions.
- All answers must be written on a separate answer sheet provided.

This paper consists of 4 printed pages. Candidates should check to ensure that all pages are printed as indicated and no question(s) is missing

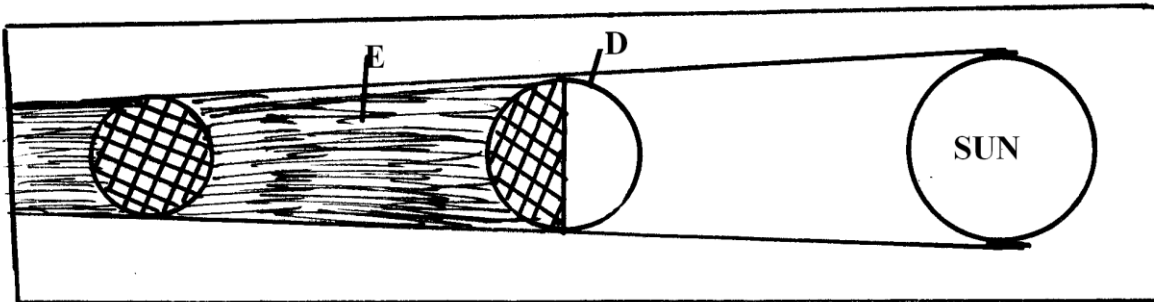
SECTION A:

Answer ALL questions.

1. a) What is river rejuvenation. (2mks)
b) The diagram below represents a river capture.



- Name the features marked A, B, C. (3mks)
2. a) Name two scales used to measure the intensity of earthquakes. (2mks)
b) Give three causes of earthquakes. (3mks)
3. a) Name a place in Kenya where tarns are found. (1mk)
b) Describe how a tarn is formed. (4mks)
4. a) What is natural vegetation. (2mks)
b) State three characteristics of Mediterranean type of vegetation. (3mks)
5. a) Give the dates in the year when the regions at the Arctic and Antarctic circles experience the longest hours of daylight. (2mks)
b) Use the diagram below to answer the questions that follow:



- i) What type of eclipse is represented by the diagram. (1mk)
ii) Name the features marked D and E. (2mks)

SECTION B:

Answer questions 6 and two other questions from this section.

6. Study the map of Belgut 1:50,000 (sheet 117/3) provided and answer the following questions.
- a) i) Convert the ratio scale of the map extract into statement scale. (2mks)
ii) Give the six figure grid reference of the trigonometric station near Kebenet school. (2mks)
iii) Measure the distance of the loose surface road from the junction near Magwagwa to the junction near Namba (Give your answer in kilometers). (2mks)
- b) i) Identify two sources of water in the area covered by the map. (3mks)
ii) Give three types of natural vegetation shown in the area covered by the map. (3mks)
- c) Using a vertical scale of 1cm represents 20m.
i) Draw a cross - section from grid reference 370540 to grid reference 430545.(3mks)
ii) On the cross – section, mark and name the following:
 - Loose surface road.
 - Reverine trees
 - Papyrus swamp. (3mks)
iii) Calculate the vertical exaggeration of the section you have drawn. (2mks)
- d) i) Describe the distribution of settlement in the area covered by the map. (2mks)
ii) Citing evidence from the map, give two economic activities carried out in the area covered by the map. (4mks)
7. a) i) Define the term leaching. (2mks)
ii) State two factors that contribute to the leaching of soil. (2mks)
- b) i) Explain how laterization (Ferrallitization) occurs. (6mks)
ii) State the three types of soil degeneration. (3mks)
- c) i) Explain four ways in which vegetation protects the soil and prevent soil erosion. (8mks)
ii) State four advantages of mulching soil using organic matter. (4mks)
8. a) i) Differentiate between weather and climate. (2mks)
ii) Explain two effects of climate change on the physical environment. (4mks)
- b) The table below shows rainfall and temperature figures of a station in Africa.

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temperature	24	24	23	22	19	17	17	18	19	20	22	23
Rainfall in (mm)	109	122	130	76	52	34	28	38	70	108	121	120

- i) On the graph paper provided draw a bar graph to represent the rainfall figures.
(Use vertical scale of 1cm to represent 10mm). (5mks)
- ii) Describe the rainfall pattern of the station. (4mks)
- iii) Calculate the average monthly temperature of the station. (show working). (2mks)
- c) You are supposed to carry out a field study on the weather within your school compound.
- i) Describe how you would use the following instruments during the study.
- Hygrometer (3mks)
- Rain gauge (3mks)
- ii) State two ways in which the information collected would be useful to the local community. (2mks)
9. a) i) Give four factors which contribute to the development of deserts. (4mks)
- ii) List two processes through which wind erodes a desert landscape. (2mks)
- b) Describe how the following desert landscapes are formed.
- i) Oases (5mks)
- ii) Zeugen. (5mks)
- c) Form three geography students of your school carried out a field study on a semi-arid region.
- i) State three ways in which they may have prepared for the field study. (3mks)
- ii) What information could they have collected through observation. (3mks)
- d) State three positive effects of desert landscape to human activities. (3mks)
10. a) i) What causes crystal rocks to fold. (2mks)
- ii) Name three types of folds. (3mks)
- b) i) With the aid of labeled diagrams describe how fold mountains are formed. (8mks)
- ii) Explain three significance of folding to human activities. (6mks)
- c) i) You intend to carry out a field study on features due to folding in a particular area.
- ii) State three reasons why it would be important for you to conduct a reconnaissance. (3mks)
- iii) State four problems you are likely to encounter. (4mks)