

KISII SOUTH DISTRICT JOINT EXAMINATION-2014
Kenya Certificate of Secondary Education(K.C.S.E)

312/1

GEOGRAPHY

PAPER 1

TIME 2HRS

TIME 2 $\frac{3}{4}$ HOURS

INSTRUCTION TO CANDIDATES

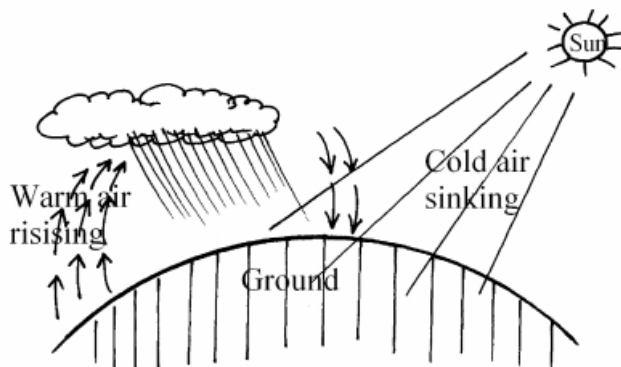
- (a) This paper has two sections **A** and **B**
- (b) Answer all questions in section **A**
- (c) Answer questions **6** and any other questions from section **B**
- (d) All answers must be written in the answer booklet provided.
- (e) Candidates should check the paper to ascertain that all the pages are printed as indicated and that no questions are missing.

This paper consists of 4 printed pages, students to confirm the same and ensure there no questions missing

SECTION A

Answer all questions in this section

1. (a) List the disadvantages which are related with the following areas of study of geography.
 - (i) Geomorphology (1mk)
 - (ii) Biogeography. (1mk)
- (b) List **three** main areas of study of physical /geography (3mks)
2. (a) List any **two** main areas which make up the external art of the earth.
- (b) List any **three** discontinuities which are found in the atmosphere (3mks)
3. (a) What is plate tectonics theory? (2mks)
- (b) Name **three** main boundaries which develop due to the movement of plate tectonic(3mks)
4. (a) Define the following terms of the hydrological cycle
 - (i) Precipitation (1mk)
 - (ii) Evaporation (1mk)
- (b) List any three factors that influence the rate of evaporation from the earth's surface(3mks)
5. The diagram below show the formation of some type of rainfall .Use it to answer question(a) and (b)



- (a) (i) Name the type of rainfall shown by this diagram (1mk)
- (ii) Name the type of cloud marked (a) (1mk)
- (b) List three weather conditions associated with the above name (a) type of rainfall.(3mks)

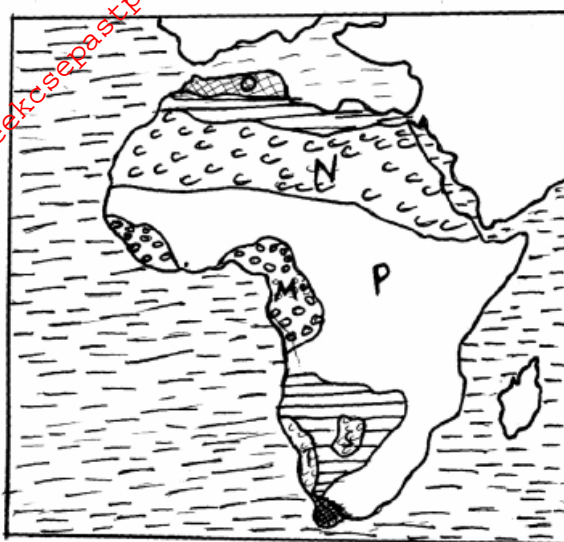
SECTION B

Answer question 6 and any other two questions from this section

6. Study the map of Karatina 1: 50,000(Sheet 121/3)
Provided to answer questions that follow.
 - (a) (i) Identify the feature found in grid reference 967543 (1mk)

- (ii) What is the distance of River Sagana found to the South Western area of the area covered by the map from the bridge in grid square 8347 to the Southern edge of the area covered by the map (Give your answer in Kilometres)
- (iii) List any **two** methods that have been used to represent the relief of the area covered by the map (2mks)
- (b) (i) Calculate the area covered by the part of Mt. Keya forest East of easting 99 and south of Northing 55(Give your answer in square Kilometres) (3mks)
- (ii) Name **two** districts found in the area covered by the map (1mk)
- (c) (i) Using a vertical scale of 1cm rep 50m draw a cross section from grid reference 810500 to 870500 (5mks)
- (ii) On the cross section drawn mark and name
- All weather roads (loose surface) (1mk)
 - River Rithithi (1mk)
 - Power line (1mk)
- (iii) Calculate vertical exaggeration (VE) for the cross section drawn (2mks)
- (d) Describe drainage in the area covered by the map (6mks)
7. (a) (i) Define the term faulting (2mks)
- (ii) Describe how a normal fault is formed (2mks)
- (b) (i) With the aid of well –labelled diagrams explain how a rift valley is formed by tensional forces. (8mks)
- (ii) A part from the Rift valley name any other three features formed by faulting(3mks)
- (c) Mention any **five** effects of the process of faulting to human environment (5mks)
- (d) Students from Itiero Girls High School intend to carry out a field study of a fault block near their school.
- (i) List any **three** objectives for their study (3mks)
- (ii) List any **two** secondary sources of information that they would use to collect data (2mks)

8.



- (a) (i) Name the types of climates marked M,O and P (3mks)
(ii) Name the desert marked T and S (2mks)
- (b) Describe the characteristics of the climate marked N (6mks)
- (c) (i) Explain any **four** natural factors influencing aridity and desertification. (8mks)
- (d) Explain any **six** effects of desert features on the human environment. (6mks)
9. (a) (i) Define the term sea. (2mks)
(ii) List any **three** features which occur in the oceans (3mks)
- (b) (i) Define the term waves (2mks)
(ii) Differentiate the term swash from backwash (2mks)
- (c) (i) Explain any **three** processes of wave erosion (6mks)
(ii) Explain how a tombob is formed (4mks)
(iii) Give **three** conditions necessary force formation of coral reefs (3mks)
- (d) List any **three** features which develop on submerged highland coasts. (3mks)
10. (a) (i) List any **three** sources of underground water (3mks)
(ii) Differentiate pervious rocks from porous rocks (2mks)
- (b) Explain **four** factors that influence the occurrence of underground water. (8mks)
- (c) (i) Mention any **three** factors necessary for the formation of karst features. (3mks)
(ii) List any **three** underground features of karst areas (3mks)
- (d) Explain any **three** significance as of karst features to man. (6mks)