

312/1

GEOGRAPHY

Paper 1

March 2013

Time: 2 ¾ Hours

CROSS COUNTRY JOINT REGISTRATION EXAM – 2013

Kenya Certificate of Secondary Education (K.C.S.E)

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Time: 2 ¾ Hours

INSTRUCTIONS TO CANDIDATES

- Answer ALL questions in section A.
- In section **B**, answer question **6** and any other TWO questions.
- All answers 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.

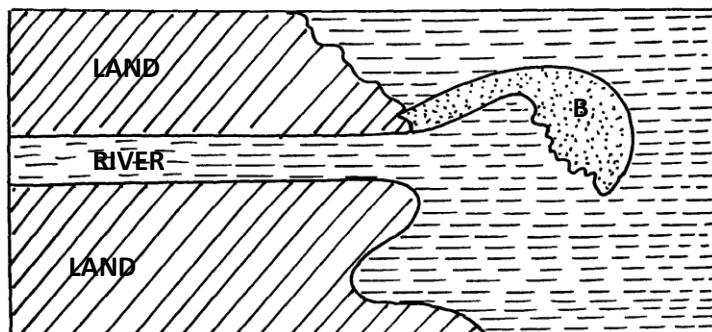
SECTION A

1. a) Name three elements of weather (3mks)
b) Give three reasons why recording of data at a school weather station may be inaccurate (3mks)
2. a) State three natural causes of earthquakes (3mks)
b) Give two effects of earthquakes in built up areas (2mks)
3. (a) Differentiate between a concordant and discordant coast (2mks)
(b) Describe how a stalactite is formed (3mks)
(c) Give **two** examples of fold mountains formed during the alpine orogeny (1mk)
4. (a) Name **two** types of seismic waves (2mks)
(b) Elucidate **two** effects of earthquakes on the ocean floor (2mks)
5. (a) Give **two** types of upland or submerged highland Coast. (2mks)
(b) Give **two** characteristics of Barrier reef. (2mks)

SECTION B

Answer question 6 and any other two questions from this section

6. (a) (i) Measure the length of Roret-Ikonge road to the junction at grid reference 4047.
Give your answer in km. (2mks)
(ii) What is the longitudinal extent of the area covered by the map. (2mks)
(iii) Give **two** methods in which relief has been represented in the area covered by map. (2mks)
 - (b) (i) Give **four** social activities carried out in the area covered by the map. (4mks)
(ii) Explain **three** factors which favour tea growing to the East of Easting 42. (6mks)
 - (c) (i) Give **three** human made features on grid square 3546. (2mks)
(ii) Describe the settlement of the area covered by the map. (7mks)
7. The diagram below represents a feature produced by wave action. Use it to answer the following questions.



- (i) Identify feature B. (1mk)
- (ii) Explain how the above feature is formed (3mks)
- b. (i) With the aid of neat diagram, explain the long shore drift process (3mks)
- (ii) Name four factors which influence wave deposition (2mks)
- (iii) Explain three ways in which wave erosion takes place (3mks)
- c. (i) Explain four factors influencing the characteristics of coast line (4mks)
- (ii) Name any two conditions that are necessary for the growth of polyps. (2mks)
- d. Students from Kaperweria Secondary school set out for a field study on coastal landforms.
- (i) Name two methods of data recording they were likely to use (2mks)
- (ii) What wave erosion features did they identify? Name three (3mks)
- (iii) Suppose they used questionnaires in collecting their data, give two demerits of using this method. (2mks)
8. (a) (i) What is ground water. (1mk)
- (ii) Explain the origin of ground water. (4mks)
- (b) With the aid of a well labeled diagram, describe the formation of an artesian basin. (6 mks)
- (c) Explain how the following factors influence the existence of ground water.
- (i) Precipitation.
- (ii) Nature of the rocks.
- (iii) Vegetation covers. (6 mks)
- (d) State **two** other factors which influence the existence of ground water. (2 mks)
- (e) You are suppose to carry out a field study of the area with ground water.
- (i) Give **two** reasons why you need a work schedule for the study. (2 mks)
- (ii) Write **two** hypothesis for your study. (2 mks)
- (iii) State **two** possible problems you are likely to encounter during the study. (2 mks)
9. (a) (i) Give **two** types of deserts according to the nature of their surfaces (2mks)
- (ii) State **three** reasons why wind is a major agent of land sculpture in the desert (3mks)
- (b) Explain **any** processes of the wind erosion in deserts (4mks)
- (c) With the aid of a well labeled diagram, explain how a **deflation hollow** is formed (6mks)
- (d) State **four** characteristic of a seif dune (4mks)

- (e) Your class went for a field study in Samburu
- (i) State **three** possible causes of desertification in the area (3mks)
 - (ii) List **three** methods they are likely to have used to present their findings (3mks)
10. (a) (i) What is global warming? (1mk)
- (ii) Give any **four** causes of climate change. (4mks)
 - (iii) Name **four** Green house gases (4mks)
- (b) Explain **five** effects of climate change (10mks)
- (c) Students are planning to carry out a field study in the area affected by climate change;
- (i) State **three** evidences they would identify to support climate change. (3mks)
 - (ii) State **three** ways in which observation would be the best method of data collection. (3mks)