

312/1
GEOGRAPHY
PAPER 1
MARCH/APRIL 2011
TIME: 2 ¾ HOURS

BUTERE EAST ZONE JOINT EVALUATION TEST

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

Geography
Paper 1

INSTRUCTIONS TO CANDIDATES:-

- This paper consists of *two* sections; section **A** and section **B**.
- Answer *all* questions in section **A**. In section **B** answer question **6** and any other *two* questions.
- All answers *must* be written in the provided sheets.

This paper consists of 4 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A

Answer all questions in this section

1. (a) Differentiate between the processes of the formation of plutonic rocks and volcanic rocks. (2mks)
(b) For each of the following sedimentary rocks, name the resultant rock that forms after metamorphism; (3mks)
 - (i) sand stone
 - (ii) limestone
 - (iii) clay

2. With a help of a diagram, explain the occurrence of relief rainfall. (5mks)

3. (a) What is a **line of longitude**? (2mks)
(b) What is the local time at Alexandria 30°C when the local time at Malindi 40°C is 12.00noon? (2mks)

4. (a) Outline the steps followed when measuring humidity using a hygrometer. (3mks)
(b) Give **two** factors that influence relative humidity. (2mks)

5. (a) Name **three** types of fold. (3mks)
(b) In which countries are the following fold mountain found?
 - (i) Andes
 - (ii) Cape ranges
 - (iii) Alps

SECTION B

Answer question 6 and any other 2 questions in this section

6. Study the map of Homabay 1:50000sheet (129/2) provided and answer the following questions;
- (a) Name the **two** districts hat order Homabay district. (2mks)
- (b) A pipeline is to be laid from Lake Victoria along line marked **X-Y**;
- (i) What is the length of the piping to be used? (*Give your answer to the nearest 100metres*)
- (ii) Calculate the bearing of point **Y** from **X**. (2mks)
- (iii) Calculate the area of the part of Lake Victoria shown on the map exhibiting the marshy sections (ans. in sq. Kms) (2mks)
- (c) Draw a rectangle measuring 12cm by 10cm to represent the area enclosed by Easting 54 and 60 Northing 35 and 40. (6mks)
- On the rectangle, mark and name the following:
- (i) dry weather road
- (ii) forest
- (iii) dam
- (iv) School
- (d) Describe the drainage of the area covered by the map. (5mks)
- (e) Citing evidence from the map, explain three economic activities taking place in the area covered by the map. (6mks)
- (f) Give **two** ways in which relief has been represented on the map. (2mks)
7. (a) (i) What is **hydrological cycle**? (2mks)
- (ii) Draw a well labeled diagram of hydrological cycle. (5mks)
- (iii) State **two** ways in which underground water may reach the surface. (3mks)
- (b) (i) What is mass wasting? (2mks)
- (ii) Give **two** processes of slow mass wasting. (2mks)
- (iii) State **two** physical conditions that influence land slide. (2mks)
- (c) Describe the following processes of mass wasting:
- (i) Rock fall
- (ii) Mud flows
- (d) Explain **three** effects of mass wasting. (6mks)

8. (a) (i) Name **three** types of faults. (3mks)
- (ii) Apart from compressional force, explain **two** other processes that may cause faulting. (4mks)
- (b) With aid of diagrams, describe how compressional forces may have led to formation of the Great Rift Valley. (8mks)
- (c) Explain **five** ways in which faulting is of significance to human activities. (10mks)
9. (a) Distinguish between permeable and porous rocks. (2mks)
- (b) Explain how the following features are formed;
- (i) stalactities
- (ii) stalagmites
- (iii) dolines
- (iv) uvala
- (v) polje
- (c) You have been asked to carryout a field study in a Karst landscape;
- (i) State **two** objectives for the study. (2mks)
- (ii) Give **two** reasons why you would need a map of study area. (2mks)
- (iii) Describe three methods you would use to record information obtained in the field. (6mks)
- (iv) State **two** ways through which you would prepare for the study. (2mks)
10. (a) (i) Identify the **two** characteristics of ocean water. (2mks)
- (ii) Explain the causes of the vertical movement of ocean water. (2mks)
- (b) Name and explain **three** types of submerged coasts. (6mks)
- (c) Give **five** factors that influence transportation of materials along the Coast (5mks)
- (d) Define the term **Atoll** and explain it's formation. (3mks)
- (e) Explain sources of salt found in sea water. (3mks)
- (f) State **four** way in which oceans are of significance to human activities. (4mks)