

312/1  
GEOGRAPHY  
PAPER 1  
JULY/AUGUST 2014  
TIME: 2¾ HOURS

**TRANS-NZOIA COUNTY JOINT EVALUATION EXAMINATION-2014**  
*Kenya Certificate of Secondary Education*

**GEOGRAPHY**  
**PAPER 1**  
**TIME: 2¾ HOURS**

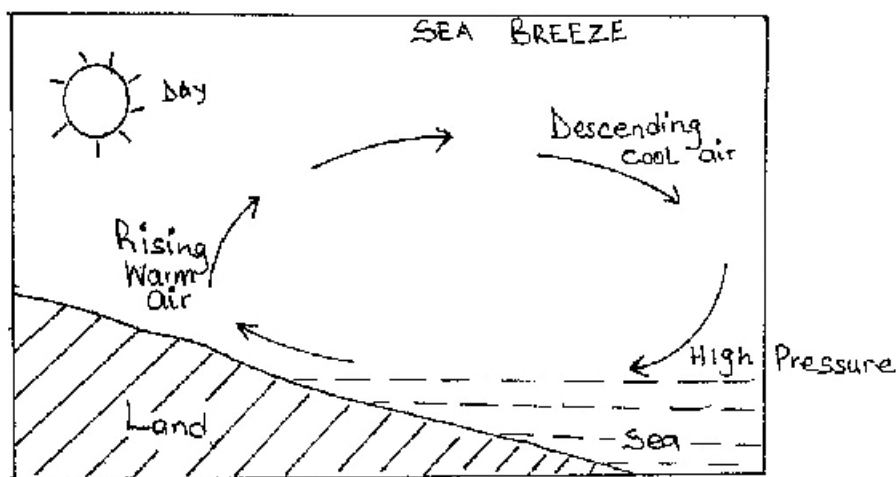
**INSTRUCTIONS TO CANDIDATES:**

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

## SECTION A:

Answer **all** questions from this section.

1. (a) State **three** proofs that the earth is spherical. (3 marks)
- (b) Name **three** effects of the earth's rotation. (3 marks)
2. (a) What is an air mass? (2 marks)
- (b) Give **three** benefits of humidity in the atmosphere. (3 marks)
3. Use the diagram **below** to answer the questions that follow:-



- (a) What causes sea breeze? (2 marks)
- (b) State **two** effects of sea breeze. (2 marks)
4. (a) What is faulting. (2 marks)
- (b) Give **three** ways through which a rift valley may be formed. (3 marks)
5. (a) State **two** reasons why a river may deposit its load. (2 marks)
- (b) Give **three** ways through which a river carries its load. (3 marks)

## **SECTION B:**

Answer question **6** and any other **two** questions from this section.

6. Study the map of Kitale 1:50,000 (sheet 75/3) and answer the following questions.
- (a) (i) Convert the R.F scale given in the map to a statement scale. (2 marks)
- (ii) Name the **three** districts neighbouring Kitale to the East of the map. (3 marks)
- (b) (i) Measure the distance of the murrum road B10/2 to the South West of the area (from Kitale) upto the junction at Knight's Corner. (Give the distance in kilometers). (2 marks)
- (ii) Calculate the area of Kiptaberr forest within the confines of the District boundary. (2 marks)
- (iii) Name **two** manmade features in the grid square 3517. (2 marks)
- (c) (i) What is the longitudinal extent of the area covered by the map. (3 marks)
- (ii) Citing evidence state **three** factors that determine human settlement in the area. (3 marks)
- (d) (i) The area shown in the map has several estates for agriculture. List **four** characteristic this type of agricultural practice. (4 marks)
- (ii) Describe the drainage of the area shown in the map. (5 marks)
7. (a) (i) What is ground water. (1 mark)
- (ii) Give **three** sources of ground water. (3 marks)
- (b) What are the ideal conditions for the formation of artesian basin? (4 marks)
- (c) Explain how the following factors influence the existence of ground water.
- (i) Precipitation. (2 marks)
- (ii) Influence of the nature of rocks. (2 marks)
- (iii) Influence of vegetation cover. (2 marks)
- (d) State **two** other factors which influence the existence of ground water. (2 marks)
- (e) You are supposed to carry out a field study of the area with ground water.
- (i) Give reasons why you need a work schedule. (3 marks)
- (ii) Write **three** objectives for your study. (3 marks)
- (iii) State **three** possible problems you are likely to encounter during the study. (3 marks)
8. (a) (i) State **three** ways in which a glacier is formed. (3 marks)
- (ii) Explain the **two** major processes of glacial erosion. (4 marks)

- (b) (i) State **three** causes of glacial deposition. (3 marks)
- (ii) List **three** erosion features of glacier in the highland areas. (3 marks)
- (c) (i) Describe how drumlins are formed. (4 marks)
- (ii) Explain **four** benefits of glaciation and glaciated landscape. (8 marks)
9. (a) (i) What is climate? (2 marks)
- (ii) Name **two** instruments found in a Stevenson screen. (2 marks)
- (b) The diagram **below** shows climatic regions of Kenya.



- (i) Name the climatic regions marked **1, 2, 5** and **7**. (4 marks)
- (ii) Explain **four** climatic characteristics of the region marked **3**. (4 marks)
- (c) (i) Describe the characteristics of desert type of climate. (4 marks)
- (ii) Explain **three** consequences of climate change. (6 marks)
- (iii) Name **three** countries that experience tropical monsoon type of climate outside Africa. (3 marks)
10. (a) (i) What is a rock? (2 marks)
- (ii) Explain the process of formation of mechanically formed sedimentary rocks. (5 marks)
- (b) Explain **three** ways in which rocks are significant to economy of Kenya. (6 marks)
- (c) Students from your school carried out a field study on the type of rocks:
- (i) One of the rock samples they collected is coral.  
Give **three** uses of this type of rock. (3 marks)
- (ii) Give **three** methods of data collection they may have used during their study. (3 marks)
- (iii) State **three** problems they are likely to have encountered during the field study. (3 marks)