

**312/1**  
**GEOGRAPHY**  
**PAPER 1**  
**JULY/AUGUST 2013**  
**TIME: 2¾ HOURS**

**KIRINYAGA CENTRAL DISTRICT JOINT EXAMINATION 2013**

**Kenya Certificate of Secondary Education**  
**GEOGRAPHY**  
**PAPER 1**  
**TIME: 2¾ HOURS**

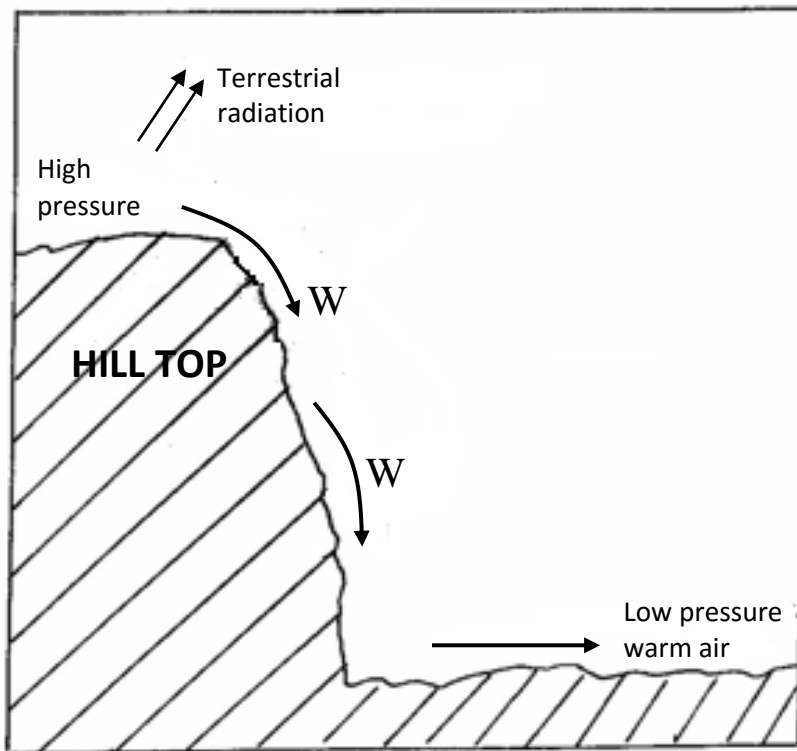
**INSTRUCTIONS TO CANDIDATES:**

- (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 in the spaces provided.

1. (a) Give **three** heavenly bodies. (3mks)
- (b) Distinguish between equinox and solstice. (2mks)
2. (a) What are harmattan winds. (2mks)
- (b) The diagram **below** shows a type of wind.



- (i) Identify the type of wind marked **W**. (1mk)
- (ii) List **two** characteristics of the type of the wind marked **W**. (2mks)
3. (a) What is a mineral? (2mks)
- (b) Name **two** metallic minerals? (2mks)
4. (a) What is climate? (2mks)
- (b) Explain **two** effects of climate change on the physical environment. (4mks)
5. (a) What is a karst scenery? (2mks)
- (b) Give **three** factors that influence the development of karst scenery. (3mks)

## **SECTION B:**

Answer question 6 and any other **two** questions

6. Study the map of Kitale 1:50,000 (Sheet 75/3) provided and answer the following questions.
- (a) (i) Give the longitudinal extent of the area covered by the map. (2mks)
- (ii) Identify the settlement patterns found on the Northern area covered by the map. (3mks)
- (b) (i) Measure the distance of the Kitale Municipality boundary. Give your answer in kilometers. (2mks)
- (ii) What is the bearing of the Air photo principal point on the grid square 2912 from the Air photo principal point on grid square 3516. (2mks)
- (c) (i) Draw a rectangle 15cm by 9cm to represent the area East of Easting 40 and North of Northing 20. (1mk)
- (ii) On the rectangle mark and name.
- Road C640. (1mk)
  - River Kapsara. (1mk)
  - Rogurr hill. (1mk)
  - District boundary. (1mk)
- (iii) Calculate the area to the East of the District boundary and to the South of Northing 23. (2mks)
- (d) (i) Identify **two** types of vegetation found in the area covered by the map. (2mks)
- (ii) Describe the drainage of the area covered by the map. (5mks)
7. (a) What is a rock? (2mks)
- (b) (i) Classify rocks according to their mode of formation. (3mks)
- (ii) Identify **two** classes of rocks mentioned in (i) above that are formed from the already existing rocks. (2mks)
- (iii) List **two** characteristics of rocks. (2mks)
- (c) (i) List **two** main types of rocks dominant in Kenya. (2mks)
- (ii) Explain the importance of studying rocks. (6mks)
- (d) Explain **four** benefits of rocks to the economy of a country. (8mks)

8. (a) (i) What is mass movement? (2mks)
- (ii) List the **two** broad categories of mass wasting. (2mks)
- (b) (i) What is soil creep? (2mks)
- (ii) Describe the factors that cause soil creep. (5mks)
- (c) Differentiate between soils creeps and rock slide. (6mks)
- (d) Explain the negative effects of mass wasting on physical and human environment. (8mks)
9. (a) Differentiate between a ocean and a sea. (2mks)
- (b) (i) Identify the **main** cause of water movement in the ocean. (2mks)
- (ii) Identify the **two** main water movements in the oceans. (2mks)
- (c) List **three** processes through which erosion occurs along the Coasts. (3mks)
- (d) Using a well labeled diagram describe the formation of a spit. (5mks)
- (e) Describe the **three** types of coasts. (6mks)
- (f) Explain how oceans currents influence the climate of the surroundings. (5mks)
10. (a) (i) What is ice? (1mk)
- (ii) Differentiate between glacier and avalanche. (2mks)
- (b) (i) Identify the **two** main glacier erosion processes. (2mks)
- (ii) Describe the factors that influence glacier erosion. (6mks)
- (c) Explain **four** effects of glaciations on human activities. (8mks)
- (d) Students from Neive School are planning to carry out a field study of a glaciated area.
- (i) State **two** objectives of their study. (2mks)
- (ii) State **two** ways they would prepare for the study. (2mks)
- (iii) Give **two** methods they would use to collect information. (2mks)