

**312/1
GEOGRAPHY
PAPER 1
NOVEMBER 2010
TIME: 2 ¾ HOURS**

SOUTHLINK JOINT EVALUATION TEST

Form three (3)

**Geography
Paper 1**

INSTRUCTIONS TO CANDIDATES:

- This paper consists of **two** sections **A** and **B**.
- Answer **all** the 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 to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A

1. (a) Define **geography** (1mk)
(b) State **one** relationship between geography and Biology (2mks)

2. (a)(i) What is **latitude**? (1mk)
(ii) Calculate the longitude of a place whose local time is 10.30a.m if the local time at 45°E is 2.00p.m (2mks)

3. (a) What is climate change? (2mks)
(b) State **three** consequences of climate change (2mks)
(c) Name **two** areas in Kenya that experience the tropical continental climate (2mks)

4. (a) State **two** theories that explain the formation of the solar system (2mks)
(b) Highlight three major weakness of Wagener's theory of the origin of continents and ocean (3mks)

5. (a) Differentiate between a concordant and discordant coast (3mks)
(b) Describe how a stalactite is formed (3mks)
(c) Give **two** examples of fold mountain formed during the alpine orogeny (1mk)

SECTION B

Answer question 6 and any other two questions in this section

Study the map of Belgut (1:50,000) sheet 117/3 provided and answer the following questions

6. (a) (i) What physical feature is found at grid square 4548. (1mk)
(ii) Give **two** methods that have been used to represent the relief of the map. (2mks)
(iii) Measure the distance of loose surface road, D226 from northing 46 to northing 51. Give your answer in kilometers. (2mks)

(b) Using the scale 1cm to represent 100m.

(i) Draw a cross section from grid reference 260520 to grid reference 340520 and on it mark

and name the following; (5mks)

- A hill.
- A provincial boundary.
- All weather loose surface road.
- Riverine trees.

(ii) Calculate the vertical exaggeration (V.E) of cross section drawn in (i) Above. (2mks)

(c) Describe the vegetation of the area covered by map extract of Belgut. (5mks)

(d) Give four reasons from the map extract that can explain why there are few settlements

in South East part of the area covered by the map. (4mks)

(e) Citing evidence from the map list the major economic activities carried out by the people

in Belgut region.. (4mks)

7. (a) (i) What is an extinct volcano? (1mk)

(ii) State **two** extinct volcanoes in Kenya. (2mks)

(iii) Name **two** areas in Kenya where geysers are found. (2mks)

(iv) State **two** economic benefits of geysers. (2mks)

(b) With the aid of well labeled diagrams describe how a caldera is formed. (6mks)

(c) Explain **four** negative effects of vulcanicity in Kenya. (8mks)

(d) Your class intends to carry out a field study on a volcano landscape;

(i) State **two** objectives for the study. (2mks)

(ii) State **two** follow up activities you are likely to carry out. (2mks)

8. (a) (i) Describe the characteristics of tropical continental climates found in Africa (3mks)

(ii) Describe the type of natural vegetation likely to be found in the area with such a climate(3mks)

(b) Explain the factors that influence climate (10mks)

- (c) You intend to carry out a field study on the weather experienced in locality of your school
- (i) State **five** ways in which you would prepare for the study. (3mks)
 - (ii) Describe how you would use the following instrument during the study;
 - A rain gauge. (2mks)
 - maximum and minimum thermometer (six's thermometer). (2mks)
 - (iii) State **two** advantages of studying weather through field work. (2mks)
9. (a) (i) State what is meant by a glacier (2mks)
- (ii) How is a glacier formed? (4mks)
- b) i) Explain **three** processes through which ice moves (6mks)
- (ii) With the aid of a well labeled diagram describe the formation of cirque (7mks)
- (c) You intend to carry out a field study on Mt. Kenya
- (i) Name **three** types of moraines you are likely to identify (3mks)
 - (ii) State **three** problems you are likely to encounter (3mks)
10. (a) Name **two** types of submerged coast. (2mks)
- (b) Explain how the following factors determine the effectiveness of wave erosion along a coast ;
- (i) Nature of material transported by waves.
 - (ii) Nature of coastal rock. (4mks)
- (c) With the aid of a diagram describe the process through which a stack is formed. (8mks)
- (d) State **five** benefits of costal landforms. (5mks)
- (e) You intend to carry out a field study at the costal region of Kenya.
- (i) State **two** reasons why it is necessary for you to prepare a working schedule. (2mks)
 - (ii) State **two** factors influencing wave deposition you are likely to study about. (2mks)
 - (iii) Name **two** wave depositional features you are likely to identify. (2mks)