**312/1**

**GEOGRAPHY**

**Paper 1**

**June 2017**

**Time: 2¾ Hours**

**HOLA BOYS SECONDARY SCHOOL**

**Form 3**

**GEOGRAPHY PAPER 1**

**2¾ Hours**

## INSTRUCTIONS

* **This exam has two sections, A and B.**
* **Answer all the questions in section A.**
* **For section B, answer question 5 (compulsory) and any other two questions from this section.**

**SECTION A**

1a) What is latitude? (2mks)

(b) What is the time at Hola on 40oE when the time at Tema on 0o longitude is 12:00 noon? (2mks)

2a) Name two elements of weather that can be recorded at a school weather station. (2mks)

(b) Give three reasons why the recording of data at a school weather station may be inaccurate. (3mks)

3a) What are earthquakes? (2mks)

(b) Name two types of earthquake waves. (2mks)

(c) State five ways in which the earth’s crust is affected by earthquakes. (3mks)

4a) State three climatic conditions experienced in the Sahara desert. (3mks)

(b) State three ways in which plants adapt to hot desert conditions. (3mks)

(c) What is desertification? (2mks)

(d) State two negative effects of desertification. (2mks)

**SECTION II**

5(a) Study the map of Busia 1:50 000 (sheet 101/1) provided and answer the following questions.

(a)(i) Convert the ratio scale of the map extract into a statement scale. (2mks)

(ii) What is the general direction of flow of river Sio? (1mk)

(iii) Identify the two dominant types of natural vegetation shown in the area covered by the map. (2mks)

(b) Draw a square 10cm by 10cm to represent the area to the West of Easting 30 and North of Northing 40. On the square, mark and label: (5mks)

(i) an international boundary

(ii) an air photo principal point.

(iii) river Sio.

(iv) the area above 1200 metres above sea level.

(c) Describe the relief of the area covered by the map. (5mks)

(d)(i) Explain how the following factors have influenced the distribution of settlements in the area covered by the map:

* drainage
* transport

(ii) Citing evidence from the map, state three functions of Funyula town. (6mks)

6(a)(i) Apart from alternative welling and drying, name three other processes of mechanical weathering. (3mks)

(ii) Describe the following processes of weathering:

* Alternative wetting and drying (slaking). ( 3mks)
* Hydrolysis (3mks)
* Carbonation (3mks)

(b)(i) State three conditions that influence the process of solifluction in mass wasting. (3mks)

(ii) Give three negative effects of mass wasting on the physical environment. (3mks)

(c) You are planning to carry out a field study on types of mass wasting.

(i) Identify three methods you would use to collect data. (3mks)

(ii) Give three types of a rapid mass wasting that you are likely to observe during the field study. (3mks)

(iii) State two ways in which the information collected during the field study would be usefull to the local community. (2mks)

7 (a) What is vulcanicity? (2mks)

b (i) Apart from a sill, name three other intrusive volcanic features. (3mks)

 (ii) Describe how the following features are formed:

* a sill (3mks)
* hot springs (5mks)
* a caldera (4mks)

(c) Explain four negative effects of earthquakes. (8mks)

8(a) What is vegetation? (2mk)

(b) Explain how the following factors influence the distribution of vegetation.

* relief (3mks)
* soils (4mks)

(c) Describe the characteristics of the savanna vegetation region. (6mks)

(d) You are planning to carry out a field study in a forest.

(I) Give four reasons why it is important to seek permission from the school. (4mks)

(ii) List three sources of information you are likely to use before the actual field study. (3mks)

(iii) Identify four challenges you are likely to encounter during the field study. (4mks)