**NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ INDEX NO. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SCHOOL \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SIGNATURE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**312/1**

**GEOGRAPHY**

**Paper 1**

**Time: 2¾ Hours**

**July / August, 2017**

**BRILLIANT 1**

**312/1**

**GEOGRAPHY**

**Paper 1**

**Time: 2¾ Hours**

**INSTRUCTIONS TO CANDIDATES**

* This paper has **two** sections: **A** and **B.**
* Answer **all** the questions in section **A**.
* In Section **B** answer questions **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 ensure that all pages are printed as indicated and no questions are missing***

**SECTION A**

***Answer ALL the questions in this section***

1. a) Distinguish between meteors and meteorites. (2marks)

b) Give **three** reasons why life is only possible on planet earth. (3 marks)

1. a) Identify **three** ways in which rocks have been classified. (3 marks)

b) Name **two** categories of mineral that are found in granite rocks. (2 marks)

1. a) Differentiate between terrestrial radiation and solar radiation. (2 marks)

b) List down **three** importance of humidity. (3 marks)

1. a) Give **two** similarities between seas and oceans. (2 marks)

b) Name **three** relief features on the ocean floor. (3 marks)

1. a) What is Tsunami? (2 marks)

b) The diagram below shows features associated with earthquakes. Study it and use it to answer the question that follows.



Identify the parts labeled X, Y, and Z (3marks)

**SECTION B**

***Answer question 6 and any other TWO questions in this section.***

1. a) i) Give the four figure arid reference of the secondary trigonometrically stating near Kyawea forest on the South Western part of the map (2 marks)

ii) What was the magnetic declination when the map was drawn? (2 marks)

iii) State the vertical interval of this map. (1 mark)

iv) What is the approximate height of Kyomi Hill at grid square 9481? (1 mark)

b) Citing evidence from the map identify any **five** drainage features found on this map. (5 marks)

c) Describe the distribution of settlement in the area covered by the map (5 marks)

d) i) Draw a rectangle 15cm by 10cm to represent the area within Easting 03 to 13 and Northing 65 and 70 (1 mark)

ii) In the rectangle to have drawn mark and name the following;

* Zombe Kitui road
* Mutito forest
* Water pipeline
* Ikoo river
* A borehole (5 marks)

e) State **two** methods used to represent relief on map. (2 marks)

1. The diagram below shows some features associated with a river. Use it to answer question (a) below.



1. Name the features marked A, B, C, and D. (5 marks)
2. i) State **four** condition which led to development of a waterfall. (4 marks)

ii) Describe three processes involved in river erosion. (6 marks)

1. You are planni0ng to carry out a study on the depositional features along the lower course of a river near your school.
2. State**five** objectives you would formulate for your study.
3. Give**five** methods you would use to record the information collected. (5 marks)
4. The diagram below shows mass movement.



1. i) Name the type of mass movement shown above. (2 marks)

ii) Identify the features labeled A and B. (2 marks)

1. Explain**four** factors influencing the speed and nature of mass wasting. (8 marks)
2. Name **five** causes of soil creep. (5 marks)
3. Explain **four** effects of mass wasting. (8marks)
4. a) i) Explain **four** factors influencing vegetation distribution in Kenya. (8 marks)

ii) State **two** major vegetation regions of Kenya. (2 marks)

b) i) Describe three characteristics of the tropical rainforest. (6 marks)

ii) State **two** problems experienced during the exploitation of the tropical rainforest.

c) You are to carry out a field of study on vegetation on Mt. Kenya.

i) Give **two** uses of mountain vegetation you are likely to study about. (2 marks)

ii) State **three** objective you would formulate for the study. (3 marks)

iii) Name **two** methods you would use to record your data. (2 marks)

1. a) What is chemical weathering? (2 marks)

b) Explain how crystal growth leads to weathering. (5 marks)

c) Your class carries out a field study on weathering.

i) A part from crystal growth name other types of mechanical weathering they identified. (5 marks)

ii) Give reasons why you carried out a reconnaissance study. (5 marks)

iii) Give **five** reasons why you required a working scheduled. (5 marks)

iv) Highlight **three** problems you likely faced during your field study. (3 marks)