NAME: .... INDEX NUMBER ....

SCHOOL: .... SIGN: .... DATE.................

312/1

GEOGRAPHY

PAPER 1

JULY- 2016

TIME: 2¾ HOURS

Kenya Certificate of Secondary Education

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 foolscaps provided.
e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.

SCORE SHEET

SECTION	A	
QUESTION	6	
QUESTION	7	
QUESTION	8	
QUESTION	9	
QUESTION	10	
TOTAL		%

SECTION A: 25marks

Answer all questions in this section

1 a) differentiate between a galaxy and an orbit. (2mrks)

 b) State two characteristics of asteroids (2mrks)

2 a) what is a time zone? (1mrk)

 b) What are the significances of International Date Line? (2mrks)

 c) Supposing the local time at the Greenwich Meridian is 2p.m., what is the time at Watamu which 40°E? (2mrks)

3 a) Give two ways that cause air to rise (2mrks)

 b) State three characteristics of the I.T.C.Z (3mrks)

4 a) Outline two components of soil (2mrks)

 b) State three characteristics of a mature soil/zonal soils (3mrks)

5 a) Define what is a lake (2mrks)

 b) State three ways of how human activities threaten the existence of lakes in Kenya. (3mrkks)

SECTION B: 75marks

Answer Question 6 and any other 2 questions.

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

6 ai) Give the magnetic declination of the area covered by the map as at January 1965. (1mrk)

 ii) Give the position of the hill at grid 2936 by latitude and longitude. (2mrks)

 iii) What is the height in meters of Burende hill? (2mrks)

b i) Name two methods that have been used to represent relief in the area covered by the map. (2mrks)

ii) Calculate the bearing and direction of the school at Bujumba (GR354357) from the market at Odiado (GR302323) (2mrks)

C i) Draw a rectangle representing the area East of Easting 25 and 33 and North of Northing 30 and 37 (2mrks)

On the rectangle mark and label the following

- Odiado hill (1mrk)
- Riverine trees (1mrk)
- The District boundary (1mrk)
- Samia ridge(1mrk)

ii) Explain how the following factors have influenced settlements

a) Drainage. (4mrks)
b) Relief. (2mrks)

d) Citing evidence from the map, state two economic activities carried out in the area covered by the map. (4mrks)

7a) (i) Differentiate between a rock and a mineral. (2mrks)

ii) State two ways in which rocks can be classified (2mrks)

b) i) Give three sub categories of igneous rocks. (3mrks)

ii) Describe how sedimentary rocks are formed (5mrks)

iii) Describe how metamorphic rocks are formed through Thermal metamorphism (3mrks)

c) You carried out a field study on rocks within the school vicinity.

i) State two objectives for your study. (2mrks)

ii) Draw a work schedule of your study (4mrks)

d) State the significance of rocks to industry. (4mrks)

8ai) Define climax vegetation (2mrks)

ii) Explain how the following factors influence the distribution of vegetation

- Aspect (4mrks)
- Drainage(2mrks)

b) Below is a world map showing some major vegetation regions of the world

i) Identify and name the vegetation marked A, B and C. (3mrks)