

312/1  
GEOGRAPHY  
PAPER 1  
JULY/AUGUST 2011  
TIME: 2  $\frac{3}{4}$  HOURS

## BUSIA DISIRICT JOINT EVALUATION TEST

*Kenya Certificate of Secondary Education (K.C.S.E.)*

Geography  
Paper 1

### INSTRUCTIONS TO CANDIDATES:-

- This paper consists of *two* sections; section **A** and section **B**.
- Answer *all* questions in section **A**. In section **B** answer question **6** and any other *two* questions.
- All answers *must* be written in the provided sheets.

*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

*Answer all the questions in this section*

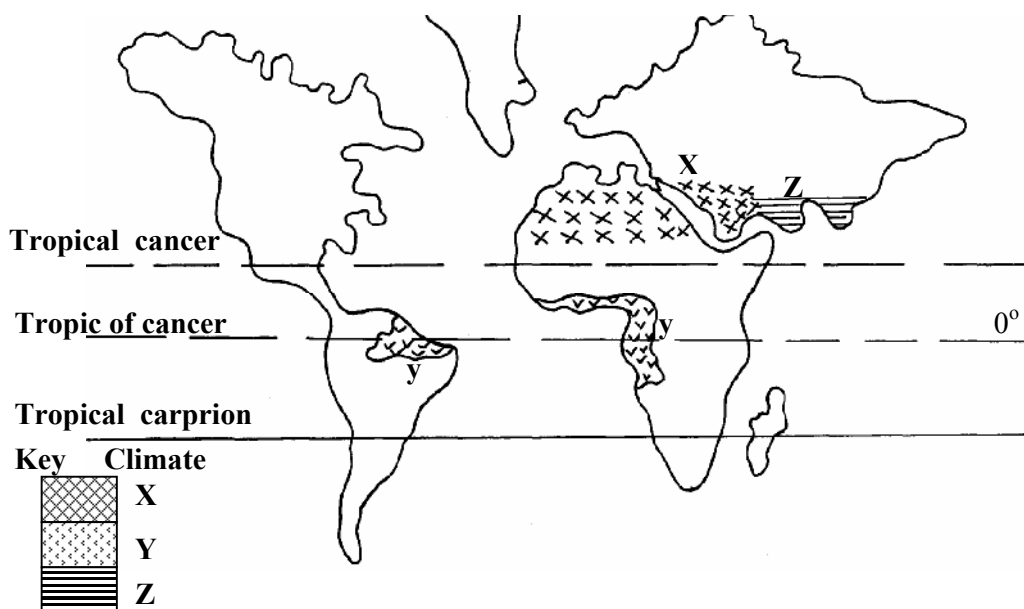
1. a) Name
  - (i) The planet nearest to the sun. (1mk)
  - (ii) The planet farthest from the sun. (1mk)
 b) State **three** effects of the rotation of the earth. (3mks)
  
2. a) Name two types of compressional boundaries. (2mks)
 b) Describe how a fold mountain is formed (by geosyncline) (4mks)
  
3. a) Name **two** warm Ocean currents. (2mks)
 b) State **three** causes of horizontal movement of ocean water. (3mks)
  
4. a) What is a lapse rate? (2mks)
 b) Name **one** layer of the earth's atmosphere which experiences.
  - a negative lapse rate. (1mk)
  - a zero lapse rate. (1mk)
  
- 5 a) Define Solfatara (2mks)
 b) State **three** ways in which calderas can form. (3mks)

## SECTION B

*Answer question Six and any other two questions from this section.*

6. Study the map of Homa Bay(1:50,000) Sheet 129/2 provided and answer the following questions
  - (a) i) Convert the ratio scale of the map extract into statement scale (1mk)
  - ii) Give the **six** figure grid reference for Asina dam (1mk)
  
  - (b) i) Draw a cross section along northing 40 from GR 490400 to 550400 use a vertical scale of 1cm rep 100m (3mks)
  - ii) On the cross section, mark and name: (3mks)
    - a river
    - a road(E117)
    - Location boundary
  - iii) Calculate the vertical exaggeration of the section you have drawn. (2mks)
  
  - (c) i) Calculate the area of Homa Bay township. (2mks)
  - ii) Measure the length of the loose surface road C19 from the junction at Got Kokech to the Homa Bay township boundary. (2mks)
  
  - (d) i) Name **three** types of natural vegetation shown on the map. (3mks)
  - ii) Name **two** sources of water in the area of the map extract. (2mks)
  - iii) Using evidence from the map, suggest **three** functions of Homa Bay town. (3mks)
  
  - (e) Citing evidence from the map, mention **three** economic activities carried out in the area of the map extract. (3mks)
  
7. (a) (i) Define wind abrasion. (2mks)
- (ii) Name **two** processes of wind transportation. (2 mks)
  
- (b) Give **one** difference between a rock pedestal and a mushroom block. (2 mks)

- (c) (i) Explain a factor that makes wind an effective agent of erosion in arid areas. (2mks)  
 (ii) Give **three** characteristics of barchans. (3mks)
- (d) Using well illustrated diagrams, explain how Mesas and Buttes form. (8mks)
- (e) You are to carry out a field study in the arid north of Kenya:  
 (i) Mention **three** preparations you would make before the study. (3mks)  
 (ii) Mention **three** problems you are likely to face during the field study. (3 mks)
8. (a) (i) Define weathering. (2 mks)  
 (ii) Name **three** types of weathering. (3 mks)  
 (iii) Give **four** factors that influence weathering. (4mks)
- (b) Explain how the following types of weathering take place:  
 (i) Exfoliation (6mks)  
 (ii) Carbonation. (4mks)
- (c) Name **two** features formed in limestone areas after carbonation takes place (2 mks)
- (d) State **four** effects of weathering on human activities. (4mks)
9. (a) i) Define a lake. (2mks)  
 ii) Apart from faulting, mention **four** other ways in which a lake can be formed (4mks)
- (b) i) Give **five** characteristics of lakes formed through faulting (5mks)  
 ii) Mention **three** factors that may determine the size of a lake (3mks)
- (c) i) Explain **three** ways in which lakes affect the natural environment. (6mks)  
 ii) State **five** ways in which lakes are important to man (5mks)
10. The map below shows a few selected climatic regions of the world.  
 Use it to answer questions a and c



- a) (i) Name climates represented by **X,Y,Z** (3mks)  
(ii) Give the characteristics of the climate marked **Y** (4mks)
- b) Explain physical factors that have influenced existence of climate marked **X** (6mks)
- c) (i) What is global warming?. (2mks)  
(ii) State **four** effects of global warming. (4mks)
- d) Identify and explain three human activities that contribute to increased carbon dioxide in the atmosphere. (6mks)