

312/1  
GEOGRAPHY  
PAPER 1  
JULY/AUGUST 2014  
TIME: 2 <sup>3</sup>/<sub>4</sub> HOURS

**HOMA-BAY SUB - COUNTY JOINT EVALUATION EXAM**  
*Kenya Certificate of Secondary Education (K.C.S.E.)*

312/1  
Geography  
Paper 1  
2 <sup>3</sup>/<sub>4</sub> Hours

**INSTRUCTIONS TO CANDIDATES**

- This paper has two sections **A** and **B**.
- Answer all questions in section **A**.
- Answer question 6 and any other two questions from section **B**.
- Candidates should answer the questions in English.

*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 questions in this section

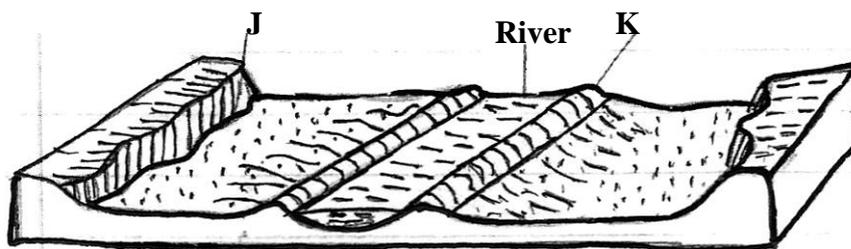
1. (a) Differentiate between vent eruption and fissure eruption (2mks)  
(b) Name **three** intrusive volcanic features (3mks)
2. (a) What is a longitude? (2mks)  
(b) What is the longitude of station **X** when it is 8.00am while in Nairobi at longitude  $37^{\circ}\text{E}$  the time is 12.00 noon? (3mks)
3. (a) State **three** causes of earth movements (3mks)  
(b) Name **two** main earthquake zones in the world (2mks)
4. (a) State **three** conditions necessary for the development of a karst scenery (3mks)  
(b) Give **two** reasons why there are a few settlements in karst landscape (2mks)
5. (a) Name **three** types of coral reefs (3mks)  
(b) What are the benefits of coral reefs in the areas they have developed? (2mks)

## SECTION B

### Answer question 6 and any other two questions from this section.

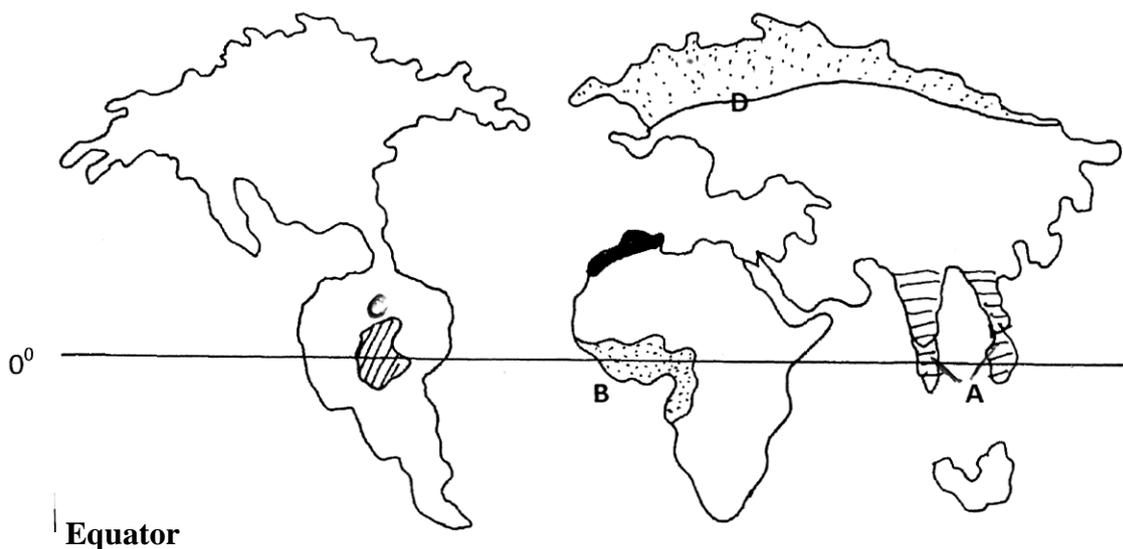
6. Study the map of Karatina sheet 121/3, scale 1:50,000 provided and answer the following questions
  - (a)(i) What was the magnetic declination of the map as at January 1992? (1mk)  
(ii) Give the latitudinal and longitudinal extent of the mapped area. (2mks)
  - (b) (i) Apart from contours, name **one** other method used to show relief in the mapped area (1mk)  
(ii) Calculate the area of Mt. Kenya forest reserve within Kirinyaga District shown in the map. Give your answer in square kilometers (2mks)
  - (c) (i) Apart from the houses, name two human made features in grid square 8755 (2mks)  
(ii) Assume that four people live in each house in the grid square 8755, calculate population density (2mks)
  - (d) Describe the flow of river Sagana (3mks)
  - (e) (i) Using evidence from the map, identify **two** farming activities taking place in the mapped area (2mks)  
(ii) Explain **three** factors which have influenced any one of the farming activities identified in(e) (i) above (6mks)
  - (f) Briefly explain how the following factors have influenced the distribution of settlements in the mapped area
    - (i) Forest Reserve (2mks)
    - (ii) Rivers (2mks)
7. (a)(i) Name **two** components of soil (2mks)  
(ii) Give **two** ways in which soils are formed (2mks)

- (b) Explain how the following factors influence soil formation
- (i) Climate (4mks)
  - (ii) Relief (2mks)
- (c) (i) Other than soil erosion, state **two** other ways in which soils may be degenerated (2mks)
- (ii) Briefly explain **two** effects of soil erosion to human activities (4mks)
- (d) Draw a well labeled diagram of the soil catena (3mks)
- (e) Your class members intend to conduct a field study on an area under the effect of soil erosion within their district
- (i) Name **two** types of soil erosion they are likely to identify during the study (2mks)
  - (ii) State **four** soil conservation measures you are likely to recommend to the residents of study area (4mks)
8. (a) (i) Differentiate between a drainage basin and watershed (2mks)
- (ii) Identify **two** types of river erosion (2mks)
- (b) Describe **two** processes through which a river transports its load (4mks)
- (c) (i) Explain **two** causes of river rejuvenation (4mks)
- (ii) Describe how an ox-bow lake is formed (5mks)
- (d) (i) The diagram given shows a flood plain



- Name the features marked **J** and **K** (2mks)
- (ii) Explain **three** positive effects of floodplains to human activities (6mks)

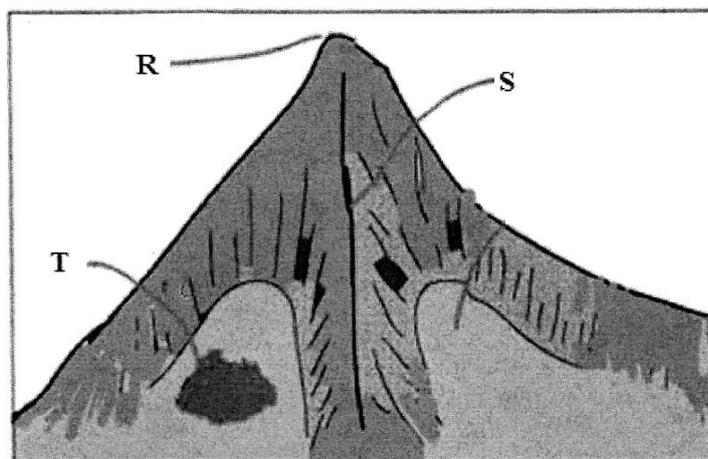
9. The diagram below shows the world distribution of climate types. Use it to answer questions (a)(i) and (ii)



- (a)(i) Name the climatic regions marked **A,B** and **D** (4mks)  
(ii) State any **four** characteristics of the climate marked **C** (4mks)
- (b)(i) Identify any **three** types of cold climates (3mks)  
(ii) Briefly explain micro climate (2mks)
- (c)(i) What is climate change? (2mks)  
(ii) Study the table and use it to answer questions (a),(b) and (c)

Months	Jan	Feb	March	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec
Temperature (°C)	28	28	27	26	23	21	21	21	23	26	26	27
Rainfall	277	213	256	107	56	33	31	28	20	132	135	234

- (a) Calculate the mean annual temperature for the station (2mks)  
(b) What is the mean annual rainfall (2mks)  
(c) State any **one** characteristics of the type of climate in the station (1mk)  
(d) (i) Explain any **two** causes of global warming (4mks)  
(ii) Name any **one** greenhouse gases (1mk)
10. (a) The diagram below shows a glaciated upland area. Study it and answer the questions that follow.



- (i) Name the features marked **R,S** and **T** (3mks)  
(ii) Describe **two** distinctive characteristics of a fiord (2mks)
- (b)With the aid of a well labeled diagram, describe how the following features are formed  
(i)Cirque (6mks)  
(ii) Hanging Valley (4mks)
- (c) Explain **two** factors that may influence glacial erosion in uplands (4mks)
- (d) Your class intends to carry out a field study on glaciated lowland  
(i) Name **one** type of moraine you are likely to identify during the study (1mk)  
(ii)Give **two** reasons why you would need the map of the area (2mks)  
(iii) State **three** importance of glacial features you are likely to identify (3mks)



**ANSWERS:**

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