312/1 **GEOGRAPHY** PAPER 1 JULY/AUGUST 2014 TIME: 2 ³⁄₄ HOURS

2/1 EOGRAPHY PER 1 LY/AUGUST 2014 ME: 2 ³/₄ HOURS HOMA²⁵-BAY SUB - COUNTY JOINT EVALUATION EXAM For More Free to

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

312/1 Geography Paper 1 2³⁄₄ 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 guestions in this section

1.	(a) Differentiate between vent eruption and fissure eruption					
	(b) Name three intrusive volcanic features	(3mks)				
2.	(a) What is a longitude?	(2mks)				
	(b) What is the longitude of station \mathbf{X} when it is 8.00am while in Nairobi at longitude					
	37°E the time is 12.00 noon?	(3mks)				
3.	(a) State three eauses 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.	^e (a)Name three types of coral reefs	(3mks)				
ofe [*]	(b) What are the benefits of coral reefs in the areas they have developed?	(2mks)				
NO.F. MIC	<u>SECTION B</u>					
\$°	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	ng 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)

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(c) (i) Apart from the houses, name two human made features in grid square 8755					
(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)(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

7.

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	(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)
A.L.C	(ii) Identify two types of river erosion	(2mks)
NOT ^e	(b) Describe two processes through which a river transports its load	(4mks)
NT NT	(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)

(6mks)

- (ii) Explain three positive effects of floodplains to human activities
- The diagram below shows the world distribution of climate types. Use it to answer questions 9. (a)(i) and (ii)



						0	con							
	(a)(i) Name the climatic regions marked A,B and D										(4mk	cs)		
	(ii) State any four characteristics of the climate marked \mathbf{C}											(4mk	cs)	
	(b)(i) Identify any three types of cold climates											(3mk	cs)	
(ii) Briefly explain micro climate										(2mk	cs)			
	(c)(i) What is climate change?									(2mk	cs)			
(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) 2 ²	28	28	27	26	23	21	21	21	23	26	26	27	
	Ramfall	277	213	256	107	56	33	31	28	20	132	135	234	
(a) Calculate the mean annual temperature for the station										(2mk	cs)			
re r	(b) What is the mean annual rainfall										(2mk	cs)		
et No	(c) State any one characteristics of the type of climate in the station											(1mk	5)	
\$ ⁰	(d) (i) Explain any two causes of global warming											(4mk	cs)	
(ii) Name any one greenhouse gases									(1mk	5)				

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 f	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)