321/1 GEOGRAPHY Paper 1 Oct./Nov. 2012 2 3/4 hours

THE KENYA NATIONAL EXAMINATIONS COUNCIL Kenya certificate of Secondary Education GEOGRPAHY Paper 1 2 ¾ hours

> 312/1 – Geography Paper 1 Tuesday 11.30 am – 2.15 pm 06/11/2012 (2nd Session)

Instructions to candidates

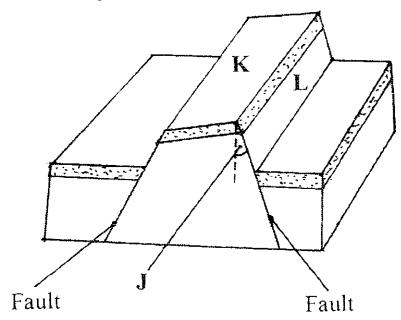
- (a) This paper has two sections: A and B
- (b) Answer all the questions in section A
- (c) Answer question 6 and any other two questions form section B
- (d) All answers must be written in the answer booklet provided
- (e) This paper consists of 6 printed pages
- (f) Candidates should check the quesiton paper to ascertain that all the pages are printed as indicated and that no questions are mssing.

SECTION A

Answer all the questions in this section

- 1(a) What is the relationship between Geography and Mathematics? (2 marks)
- (b) State four reasons why it is important to study Geography (4 marks)
- 2 (a) Name the two layers of discontinuity that are part of the interior structure of earth. (2 marks)
 - (b) State three characteristics of the outer core in the interior structure of the earth (3 marks)
- 3 (a) Name two forms of precipitation that commonly occur in Kenya (2 marks)
 - (b) What is a Stevenson's screen? (2 marks)
- 4 (a) Identify two causes of earth movement (2 marks)

The diagram below shows some features formed as a result of faulting



- (b) Identify:
 - (i) the angle marked J (1 mark)
 - (ii) the features marked K and L (2 marks)
- 5 (a) Identify two sources of water found in a lake (2 marks)
 - (b) Give three characteristics of lakes formed due to faulting (3 marks)

SECTION B

Answer question 6 and any other two questions from this section

6.	Study the map of Kitale 1:50,000 (sheet 75/3) provided and answer the questions.				
	(a)	(i)	Identify the two human made features found at the 2320.	grid square (2 marks)	
		(ii)	What is the attitude of the highest point in the area map?	covered by the (2 marks)	
		(iii)	Give three types of natural vegetation found in the the map	area covered by (3 marks)	
	(b)	(i)	What is the bearing of the Air Photo Principal Point 3426 from the Air Photo Principal Point at grid square		
		(ii)	Measure the distance of the dry weather road (C 6-junction at point M (345142) to the junction at point Give your answer in Kilometres.	· ·	
	(c)	(i)	Using a scale of 1cm to r represent 40 metres, draw from grid reference 410180 to grid reference 5001		
		(ii)	On the cross-section, mark and name the following	ıı.	
		(11)	 A dry weather road; 	g. (1 mark)	
			• River Kaptarit;	(1 mark)	
			• A ridge	(1 mark)	
		(iii)	Calculate the vertical exaggeration (VE) of the section		
		, ,		(2 marks)	
	(d)	Citing evidence from the map, identify five social services offered in			
	, ,	Kitale Municipality. (5 marks)			
7	(a)	(i)	What is a mineral?	(2 marks)	
		(ii)	Describe the following characteristics of minerals:		
			• Luster	(2 marks)	
			 Colour 	(2 marks)	
			Density	(2 marks)	
	(b)	(i)	Name two examples of extrusive igneous rocks	(2 marks)	

		(ii)	Describe three ways in which sedimentary	(9 marks)	
	(c)	Explain the significance of rocks to the economy of Kenya under the following subheadings:			
		(i) (ii) (iii)	tourism: energy; water	(2 marks) (2 marks) (2 marks)	
8	(a)	Expla (i) (ii) (iii)	ain the following processes of weathering: hydration oxidation frost action	(2 marks) (2 marks) (2 marks)	
	(b)	Desc	ribe how an exfoliation dome is formed	(6 marks)	
	(c)	Explain three physical factors that enhance movement of materials alo slope due to gravity. (6 marks)			
	(d)	(i)	Give two processes of rapid mass movement	(2 marks)	
		(ii)	State four indicators of occurrence of soil creep	in an area (4 marks)	
9.	(a)	(i)	Outline two factors that influence the developme patterns	ent of drainage (2 marks)	
		(ii)	Outline five characteristics of a river in its youth	ful stage (5 marks)	
	(b)	Describe the following processes of river erosion:			
		(i)	attrition;	(2 marks)	
		(ii)	corrosion	(4 marks)	
	(c)	Explain three negative effects of rivers to the human environment (6 marks)			
	(d)	Your class is planning to carry out a field study of a river in its old stage			
		(i)	State three reasons why it would be necessary to of study.	pre-visit the area (3 marks)	
		(ii)	State three activities you would carry out to dete deposition occurs at this stage.	rmine why (3 marks)	

10.	(a)	(i)	Define the term soil	(2 marks)
		(ii)	Give two factors that determine soil leaching	(2 marks)
	(b)	Expla	in how the following factors influence soil formation parent rock	(4 marks)
		(ii)	biotic factors	(4 marks)
	(c)	(i)	State three characteristics of desert soils	(6 marks)
		(ii)	Give two economic uses of soils	(2 marks)
	(d)	You are supposed to carry out a field study of an eroded area		
		(i)	What information would you collect through obser would indicate that the area is severely eroded?	vation that (2 marks)
		(ii)	Identify three methods you would use to record the	observations (3 marks)
		(iii)	State three recommendations you would give to co-	ntrol soil (3 marks)

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