312/1

GEOGRAPHY

PAPER 1

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2³⁄₄ HOURS

KISUMU NORTH AND EAST DISTRICT JOINT TEST FOT NOTE FIFE

Kenya Certificate of Secondary Education 2012

312/1

GEOGRAPHY

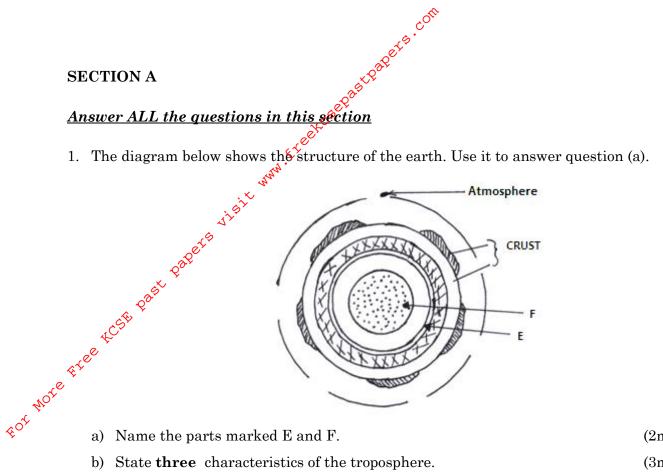
PAPER 1

JULY / AUGUST 2012

Instructions to candidates;

- ✤ This paper has two sections: A and B.
- * Answer **all** the questions in section A.
- In section B, answer **questions 6** and any other **TWO** questions. *
- All the answers must be written on the answer sheets provided. *

This paper consists of 4 printed pages. Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing.



	a) Name the parts marked E and F.	(2mrks)
	b) State three characteristics of the troposphere.	(3mrks)
2.	a) Identify two forms of rock metamorphism.	(2mrks)
	b) State the extrusive equivalent of the following intrusive igneous rocks.	
	i) Granite	(1mrk)
	ii) Diorite	(1mrk)
	iii) Gabbro	(1mrk)
3.	a) What is a seismic wave.	(2mrks)
	b) State three ways in which earthquakes affect human activities.	(3mrks)
4.	a) Differentiate between illuviation and salinization.	(2mrks)
	b) State three importance of water as a soil property.	(3mrks)
5.	a) Identify two types of deltas.	(2mrks)
	b) State t hree conditions that are ideal for the formation of a delta.	(3mrks)

SECTION B Answer questions 6 and any other TWO questions in this section.

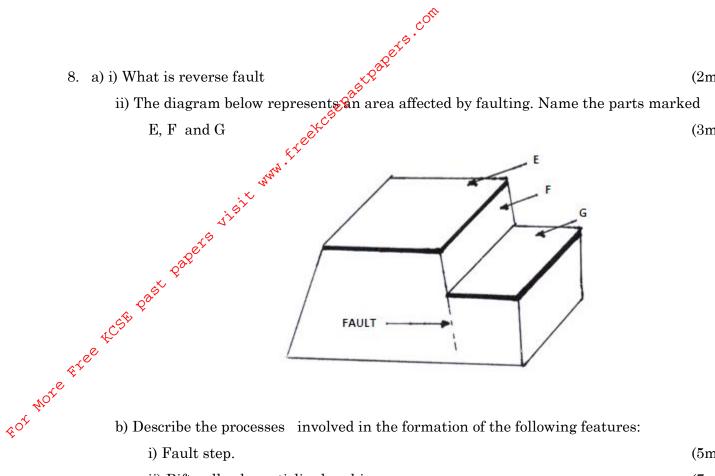
6. Study the map of Nkubu 1:50,000 provided and answer the following questions.

	a)) i) Give the six figure grid reference of the trigonometrical station (other) to the	north east
		of Gikongoro.	(1mrk)
		ii) Measure the length of the dry weather road from the junction at Getaiga to the	e junction at
		Kaongo. Gave your answer in kilometers.	(2mrks)
		iii) Give the sheet number of the map to the south east of Nkubu.	(1mrk)
	b)) i) Using a vertical scale of 1cm rep[resents 40m, draw a cross-section along easti	ing 56 from
		syrid reference 560,830 to grid reference 560,890.	(4mrks)
FOT NOTE	e,	On the cross-section mark and label the following.	
<	êr e	River iraru.	(1mrk)
More		Dry weather road.	(1mrk)
*Of		Main track.	(1mrk)
¥		ii) Calculate the vertical exaggeration.	(2mrks)
	c)) Describe the relief of the area covered by the map.	(5mrks)
	d)) Form four students from Nkubu School carried out a field study on distribution o	of settlement
		in the area covered by the map.	
		i) State two reasons why they had to divide themselves into groups.	(2mrks)
		ii) Identity two settlement patterns they studied.	(2mrks)
		iii) State three follow-up activities they might have carried after the study.	(3mrks)
	7. a)) Differentiate between fissure and vent eruption.	(2mrks)
	b)) Describe how the following features are formed.	
		i) Batholiths.	(6mrks)
		ii) Volcanic plug	(5mrks)
	c)) Explain three negative effects of volcanicity on human activities.	(6mrks)
	d)) You are planning to carry out a field study on features formed by volcanicity on t	he land
		scape	
		i) Formulate two null-hypotheses for the studies. (2n	nrks)
		ii) Name two drainage features you are likely to study. (2n	nrks)

iii) State two methods you would use to record information during the study. (2mrks)

(2mrks)

(3mrks)



i) Fault sten

i) Fault step.	(5mrks)
ii) Rift valley by anticlinal arching.	(7mrks)
c) Explain four ways in which block mountains influence climate.	(8mrks)
9. a) Name two mountains in East Africa where congelifraction is common.	(2mrks)
b) Describe the following types of weathering:	
i) Pressure release.	(5mrks)
ii) Hydration.	(4mrks)
iii) Oxidation.	(4mrks)
c) Explain three ways in which plants cause weathering.	(6mrks)
d) i) what is an avalanche.	(1mrk)
ii) State three effects of avalanche.	(3mrks)
10. a) i) what is a spring?	(2mrks)
ii) Explain three factors that influence the occurrence of underground water.	(6mrks)
b) State four condition necessary for the formation of an artesian well.	(4mrks)
c) i) state four characteristics of karst scenery.	(4mrks)
ii) With the aid of a well labeled diagram describe how a stalactite is formed.	(9mrks)