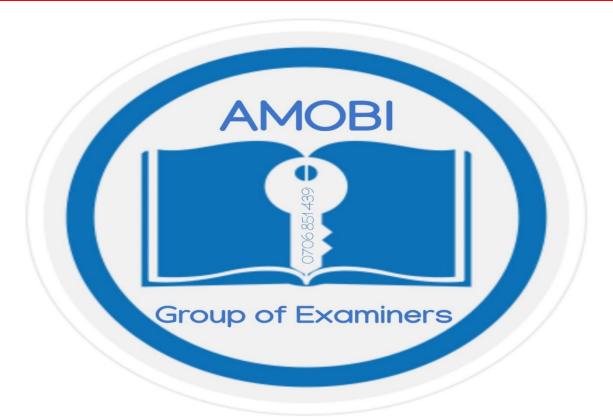
### GEOGRAPHY PP1, MOCK SERIES 1,

### K.C.S.E TOP EXAMINERS' 10 QUESTION PAPERS



### GEOGRAPHY PP1, MOCK SERIES 1, K.C.S.E TOP EXAMINERS' 10 QP

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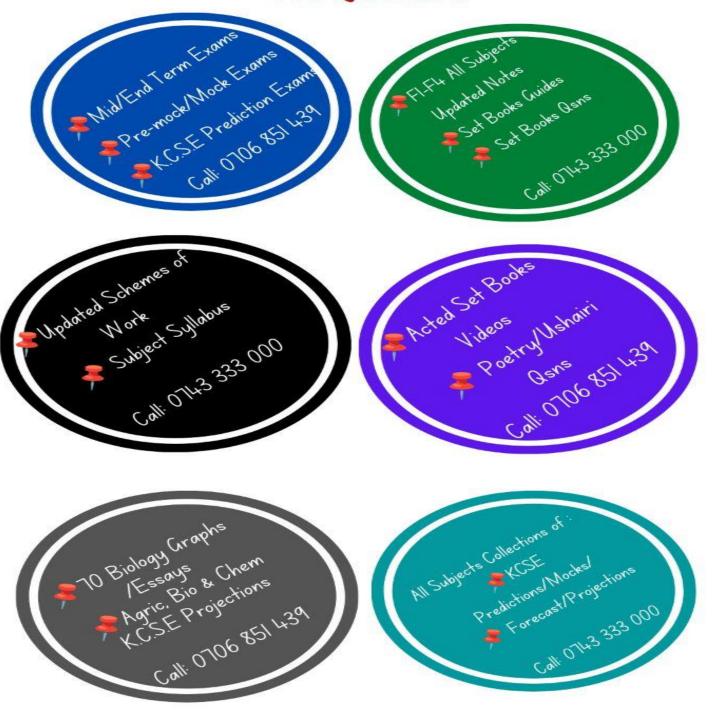
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VAME:
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K.C.S.E TOP EXAMINERS' MOCK SERIES 1
<b>QUESTION PAPER NO: 1</b>

312/1 GEOGRAPHY

Donor 1

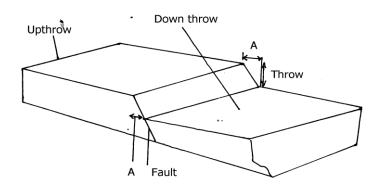
Paper 1

Time: 2 ¾ HOURS

### **SECTION A**

Answer all the questions in this section in the spaces provided.

- **1. a)** List two features resulting from extrusive volcanic activity. (2mks)
  - b) State four ways in which volcanicity has influenced human activities in Kenya. (4mks)
- 2. The block diagram below represents part of earth's crust which has been subjected to tensional forces.



a) Name (i) the slope marked A.

- (lmk)
- b) State three ways in which faulting can influence drainage systems. (3mks)

3.	a)	What is isobar?	(lmk)
	b)	List four characteristics of modified Equatorial Climate (such a	s experienced in
		the lake Victoria Basin.	(4mks)
4.	a)	If the local time in Nairobi at longitude 37° E is 10.00 a.m.	
	W	hat will the time be at / Buchanan in Liberia at longitude 1 0°W	
	<b>b</b> )	What is the effect of the international date line on time? (2nd)	nks)
5.	a) (	Give three examples of mechanically formed sedimentary rocks.	(3mks)
	b)	State two changes that occur in sedimentary rocks when they are heat and pressure.	e subjected to intense (2mks)
In t	his s	SECTION B section answer question 6 and any other two questions All qu	estions carry (25 marks)
6.	Stu	dy the map of Nkubu 1:50,000 provide and answer the questions	s that follow
a)	i)	Name two types of scale used on the map.	(2mks)
	ii)	What is the circumference of lake Rumiku.	(1 mk)
b)	Des	scribe the vegetation of the area covered by the map.	(5mks)
c)	Cit	ing evidence from the map, describe the climate of the area cove	ered by the map (4mks)
d)	i)	State two methods used to show relief on this map	<b>(2mks)</b>
	ii)	What is the height of the highest point in the area covered by	the map. (2 mks)
	iii)	State the longitudinal extend of the area covered by the map	<b>(2mks)</b>
	iv)	What is the depth of lake Erimbere	<b>(2mks)</b>
(e)	Dra	nw a rectangle measuring 8cm by 6cm to cover areas between 53	96,5796, 5399
		and 5799. On it mark and name:	
		i) Rurie swamp	
		ii) Quarries	
		iii) Mariara river	
		iv) Dry weather road	(5mks)

<b>b</b> )	Describ	e the characteristics of a	a river in its old age				
c)	Describ	e each of the following	drainage patterns				
	i)S	uperimposed drainage p	pattern				
	ii)(	Centripetal drainage pat	tern				
d)	You hav	ve planned to carry out	a study of a river in its youthful stage				
	i)	State two ways in which	ch you would prepare for the study				
	ii)	Name two feature you	are likely to study				
	iii)	List two problems you	are likely to experience during the study				
8.	a) List f	four processes through v	which costs are eroded				
	<b>b</b> ) Usin	g well-labeled diagram,	explain how each of the following features is	s used formed.			
		i) A spit	(4mks)				
		ii) A blow hole	(2mks)				
		iii) An a toll	(5mks)				
	c) Some	student carried out a fie	eld study on the coastal features found along t	he coast			
	0	f Kenya.					
	<ul> <li>i) List three features formed as a result of coastal emergence that they are likely to have studied.</li> <li>(3mks)</li> </ul>						
	i	ii) State three methods t	he student may have used to record their data	. (2mks)			
	ii	i) Describe two ways in	which features resulting from coastal emerge	ence are of			
		significance of Keny	a.	(2mks)			

Describe three ways by which a river transports its load

What is river divide?

**7.a**)

i)

ii)

9.	a)	List		
	i)	Four characteristics of desert soil.	(4mks)	
	ii)	Two factors that contribute to soil leaching.	(2mks)	
b)	Expla	ain how each of the following factors influences the form	nation of soil:	
	i)	Parent rock	(2ml	xs)
	ii)	Living organisms	(2ml	xs)
	iii	) Topography	(2ml	xs)
c)	Draw	a well labeled profile of mature soil.	<b>(5mks)</b>	
d)	Expla	ain four ways in which human activities contribute to soi	l erosion.	(8mks)
10.	(a)	What do you understand by the term derived vegetation	1.	(2 mks)
	<b>(b)</b>	State 4 characteristics of equatorial vegetation.		(4 mks)
	<b>(c)</b>	Explain 4 ways in which desert vegetation are adapted	to the environ	mental conditions.
				(8mks)
	( <b>d</b> )	Explain how the following factors influence vegetation	distribution in	n Kenya.
		(i) Edaphic factors.		(4 mks)
		(ii) Human factors		(3mks)
(e)	Stude	ents of Budonga School carried out a field study on vege	tation around	their school
		(i) State two methods they may have used to record	their data.	
		(ii) State two problems they may have encountered of	luring their stu	ıdy.

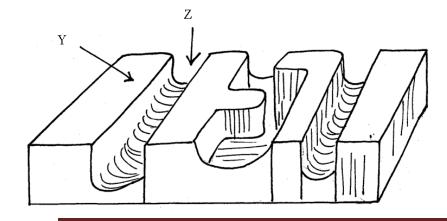
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		K.C	C.S.E TOP EXAMINERS' MOCK	SERIES 1				
			<b>QUESTION PAPER NO: 2</b>					
Pa	OGR per1	APHY Hours 4	45 Minutes					
1.	(a)	State	e how the following forces influence the shape of the	earth.				
		(i)	Force of gravity					
		(ii)	Centripetal force					
		(iii)	Centrifugal force					
	<b>(b)</b>	State	e three significances of weather forecasting					
2.	(a)	Wha	t is an earth quake					
	<b>(b)</b>	List three natural causes of earth quakes						
3.	(a)	State	e three characteristics of the desert climate.	(3mks)				
	<b>(b)</b>	Nam	e two areas in Kenya that experience the tropical con	ntinental climate	(2mks)			
4.	(a)	Nam	e three types of drainage patterns.	(3mks)				
	<b>(b)</b>	Explain why warm air cools as it rises (2mks)						
5.	(a)	Nam	e two processes of river erosion	(2mks)				
	<b>(b)</b>	Defi	ne river rejuvenation	(1mk)				
	(c)	State two conditions necessary for river capture (2mks)						

6.	Use t	the map of Nkubu sheet 122/1 to answer the following questions.						
	(a)	Mea	sure the all weather roads from Meru					
		(i)	To the junction at Nkubu.	(2ml	ks)			
		Iden	tify the relief feature found in					
		(ii)	Grid square 3889.	(1ml	k)			
	<b>(b)</b>	(b) Give the compass bearing of trigonometrical station 122 ST 8 In grid square						
		4193	from the air photo principal point in gri	d square 4698	(3mks)			
	(c)	Drav	v a cross section from 4792 to 5390					
		(i)	On it indicate					
			- I A river valley II All weather	road				
			- Use a vertical scale of 1cm to r	epresent 50m.	(10mks)			
		(ii)	Calculate the vertical exaggeration an	d gradient of the c	ross section (4mks)			
	<b>(d)</b>	Desc	ribe the drainage of the area covered by	the map	(4mks)			
	(e)	Give	the latitudinal and longitudinal extent	of the area covered	by the map. (2mks)			
7.	(a)	(i)	What is a desert		(1mk)			
		(ii)	Explain two process of wind erosion	in deserts	(4mks)			
	<b>(b)</b>	With	the aid of well labeled diagrams, descr	ribe how the follow	ving features are formed			
		(i)	Rock Pedestals	(6mks)				
		(ii)	Yardangs	(6mks)				
	(c)		e three features results from deposition	in arid areas	(3mks)			
	( <b>d</b> )		ain two negative effects of desert land f		(4mks)			

8.	(a)	(i)	Differentiate between Aridity and desertification	(2mks)
		(ii)	Explain how the following factors influence Aridity.	
			- Winds and ocean currents	(2mks)
			- Continentality	(2mks)
			- Pressure systems	(2mks)
		(iii)	State 4 possible solutions to aridity and desertification.	(4mks)
	(b)	(i)	Define climate change	(2mks)
		(ii)	Explain three external causes of climate change	(6mks)
		(iii)	Name three Green houses gases	(3mks)
		(iv)	Give two evidence to support the existence of climate Ch	nange (2mks)

- 9.(a)(i) Give two sources of underground water (2mks)
  - (ii) State three factors that influence occurrence of underground water. (3mks)
- (b) (i) Using diagrams describe the conditions that favour location of an artesian well (5mks)
  - (ii) Study the diagram below and answer the questions that follow.

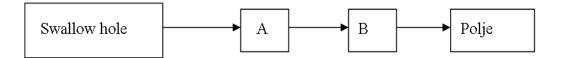
The diagram pertains to action of water in limestone areas.



Name the feature labeled Y and Z

(2mks)

(c) (i) Complete the flow chart below concerning action of water in limestone areas.



Name the features represented by A and B

- Differentiate between effluent and influent rivers (2mks)
- (d) Describe the formation of stalagmites and stalactites (6mks)
- (e) Students of Elimu Secondary School made a field study of underground features in a karst Scenery
- (i) Suggest a little for their study

(ii)

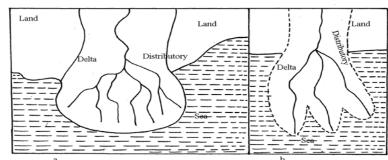
(1mk)

(2mks)

- (ii) Name two features they may have come across, apart from stalagmites and stalactites (3mks)
- 10. (a) (i) Differentiate between a river system and river drainage basin (2mks)
  - (ii) Describe three process of river erosion (6mks)
  - (b) (i) Describe the formation of an ox-bow lake (5mks)
    - (ii) Describe the process of river capture (4mks)
  - (c) (i) What is river rejuvenation? (2mks)
    - (ii) Name two features which result from river rejuvenation (2mks)
    - (iii) Study the diagrams below and answer the questions that follow:

Name the deltas labeled (a) and (b) (2mks)

(iv) State two significances of rivers (2mks)



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		K.C.S.E TOP EXAMINERS' MOCI	K SERIE	S 1
		<b>QUESTION PAPER NO:</b>	3	
PA	OGR PER			
1.	vie: 2 (a)	34 <b>HOURS</b> Explain how geography is useful to a civil Engineer.	(2n	nks)
	<b>(b)</b>	Apart from mapwork, list any other three areas that ne	ed practical a	spect (3mks)
2.	(a)	Name any two planets without satelites	(2n	nks)
	<b>(b)</b>	Explain the effect of the following forces for the shape	e of the earth.	
		(i) Gravitational force	(1mk)	
		(ii) Centrifugal force	(1mk)	
		(iii) Centripetal force	(1mk)	
3.	(a)	Name two land masses formed when Pangea broke up	into northern	and southern
		continents.	<b>(2mks)</b>	
	<b>(b)</b>	State any three evidences supporting the continental d	rift theory	(3mks)
4.	(a)	State two factors that determine the size of a lake.	(2n	nks)
	(b)	Describe how a caldera lake is formed.	(3n	nks)
5.	(a)H	ighlight any three factors that necessitate the occurrence	e of an artesia	n basin. (3mks)
	(b)A	part from lakes rivers and sea, name any other two sources	ces of underg	round water (2mks

6.	Study	the map of <b>Nkubu</b> (1:50000) sheet 122/1 provided	and answer the fol	llowing questions.
	(a)	(i) Give the vertical interval of the area covered by	the map.	(1mk)
		(ii) What is the latitudinal extent of the area covered	d by the map.	(1mk)
		(iii) Citing evidence from the map extract, mention	three social activi	ties in
		the area.	(3mks)	
	<b>(b)</b>	(i) Give six – figure grid reference of uruku shops	(1mk)	
		(ii) Calculate the area of North East corner of the m	nap extract enclose	d by
		Meru – Mitunguu road.	(3mks)	
		(iii) If the area in (b) (ii) above is enlarged twice, whe statement scale in km <sup>2</sup>	hat would be the nation (2mks)	ew
	<b>(c)</b>	Explain any two factors that may have influenced the	ne distribution of	
		settlement in the area covered by the map.	(4mks)	
	(d)	(i) Draw a cross-section from grid – reference 5708	20 to grid – refere	nce 570890 ( <b>3mks</b> )
		(ii) On the cross-section, mark and name	(3mks)	
		- Iraru River		
		- Road		
		- Escarpment		
		(iii) Calculate vertical exageration in the cross-section	ion you have draw	n <b>(2mks</b> )
		(iv) Apart from lakes and rivers, list any other source	ce of water in the a	area covered
		by the map.		(1mk)
		(v) The area represented by the map is part of wh	nich district	(1mk)

7. (a) Define positive lapse rate

(2mks)

**(b)** The table below shows the climate of a station in Kenya. Study it and answer the questions that follow.

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp <sup>0</sup> C	24	25	27	29	24	26	25	26	28	26	26	24
Rainfall (mm)	124	109	119	284	235	118	104	140	215	76	107	122

- (i) Using a scale of 1cm to rep 50mm and 1cm to rep 10<sup>o</sup>C draw a combined bar and line graph to represent the data above. (6mks)
  - (ii) Calculate mean annual rainfall of the station
  - (iii) Describe the climate characteristic of the station (4mks)
  - (c) In a weather station, explain reasons why
    - (i) The rain gauge is sunk into the ground
    - (ii) The top of the gauge being 30cm above the ground
    - (iii) The Stevenson screen is raised 121cm above the ground
    - (iv) The Stevenson screen has louvered sides

(4mks)

- (d) You have been asked to carry out field study on a weather station around your school.
  - (i) State any three instruments you are likely to find in the weather station. (3mks)
  - (ii) State any two objectives of the study

**(2mks)** 

(iii) What follow-up activities would you undertake

(**3mks**)

8. (a) (i) Define weathering

(2mks)

(ii) Other than water, identify three other weathering agents

(3mks)

(iii) Give four factors that influence weathering

(4mks)

(b) Explain how the following types of weathering take place.

(9mks)

(i) Exfoliation

		(ii) Carbonation			
		(iii) Block disintegration			
	(c)	Students of Chepngobob Secondary School carried out fi	eldwork on		
		weathering in limestone area.			
		(i) Name three features they may have identified	(3mks)		
		(ii) State four effects of weathering on human activities	(4mks)		
9.	(a)	(i) List three constituents of the soil	(3mks)		
		(ii) Draw a diagram of a mature soil profile	(4mks)		
		(iii) List any three reasons why some soils do not develop	p a mature pro	ofile	(3mks)
	(b)	(i) Name any three soil forming processes	(3mks)		
		(ii) Explain how the following factors influence soil form	nation	(6mks)	)
		i) Time			
		ii) Nature of the parent rock			
	(c)	You intend to carry out a field study on soils in your dist	rict.		
		(i) State four characteristics you would look for in classif	lying soils.	(4mks)	)
		(ii) Identify any two natural causes of soil degeneration y	ou observed.	(2mks	<b>s</b> )
10.	(a)	(i) Define longshore drift	(2mks	s)	
		(ii) Name three types of Islands	(3mks	s)	
	<b>(b)</b>	(i) Describe any four processes involved in marine erosic	on (8mks	s)	
		(ii) State any three factors that determine the size of a wa	ive in the oper	n sea	(3mks)
	<b>(c)</b>	(i) With the help of a diagram differentiate between a spi	t and Tombol	lo <b>(6mk</b>	(s)
		(ii) List any three erosional features resulting from wave	. (3mks	s)	

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	K.C.S.E TOP EXAMINERS' MOCK SERIES	S 1
	<b>QUESTION PAPER NO: 4</b>	
PA	2/1 EOGRAPHY PER I ME: 2 <sup>3</sup> /4 HOURS SECTION A	
1.	State <b>three</b> conditions considered in choosing a suitable site for a weather s	station. (3mks)
2.	(a) Give the reason why air cools as it rises.	(2mks)
	(b) Give three reasons why weather forecasting is important.	(3mks)
3.	(a) How is an oasis formed?	(3mks)
	(b) State four characteristics of the hot desert climate.	(4mks)
4.	(a) list <b>three</b> external land forming processes which lead to the formation of	f lakes. (3mks)
	(b) State the <b>two</b> ways in which lakes influence the natural environment.	(2mks)
5.	(a) Give three reasons why the interior of the earth is still hot. (3m)	ks)
	(b) Outlinetwo factors which influence the salinity of ocean water.	(2mks)

### **SECTION B**

### Answer question 6 and any other TWO questions from this section

6. Study the map provided (SAMIA 1:50000) and answer the following questions. (a) (i) What is the six figure grid reference of the peak on wanga hill? (1mk) (ii) Name one man-made feature found in the grid square 3509. (1mk)(iii) What is the bearing of the point marked Xfrom the point marked Y? (2mks)(iv What is the area of Lake Kanyaboli shown on the map? (2mks)(v) What is the distance in kilometres of all weather loose surface road (C522) from the junction at grid reference 128158 to the junction near namalo school? (2mks)**(b)** Draw a rectangle 14cm by 12cm to represent the area west of easting 19 and north of northing 21. On the triangle mark and name:-(i) Lake Victoria. (1mrk) (1mrk) (ii) A ridge. (iii) The all weather loose surface road (C523). (1mrk) (iv) A seasonal swamp. (1mrk) (c) (i) Citing evidence from the map, name two economic activities carried out in the area covered by the map. (2mks)(ii) Explain three factors that influence settlement in the area covered by the map. (6mks) (d) Students of Ukwala School carried out a field study along the course of river nzoia. Name four natural features they observed along the river course. (4mks)

7. (	(a) State three characteristics of the inter-tropical convergence zone (ITC	Z). (3mks)
(	(b) With the aid of a labelled diagram, describe how relief rainfall is form	ed. <b>(6mks)</b>
(	(c) Explain three factors that have led to a decline of the natural grassland	ls in Kenya (6mks)
(	(d) You are required to carry out a field study to determine the relationship	p between climate
	and vegetation n your district	
	(i) Give three reasons why you would need a map of the district.	(3mks)
	(ii) Name two sampling techniques you are likely to use during the f	ield study. (2mks)
	(iii) Give two reasons why sampling would be appropriate for the stu-	dy. (2mks)
	(iv) State three methods you would use to record data during the field	d study. (3mks)
0		(2)
8.	(a) (i) Differentiate between aridity and desertification.	(2mks)
(ii)	Name two types of desert surfaces.	(2mks)
<b>(b)</b>	Explain three reasons why wind is a dominant agent of erosion in hot de	eserts. (6mks)
(c)	Describe <b>two</b> processes of wind erosion in deserts. (4mks)	•
( <b>d</b> )	(i) Name three types of sand dunes. (3mks)	)
(ii)	Describe how loess feature is formed. (4mks)	•
(e)	Students from chalbi secondary school carried out a field study on water	r erosion near their
sch	nool.	
(i)	Name <b>two</b> features they identified. (2mks)	ı
(ii)	State <b>two</b> problems they could have encountered during their field study	y. (2mks)

9.	(a) State four types of faults.	(4mks)
	(b) Explainthree ways in which faulting can influence drainage systems.	<b>(6mks)</b>
	(c) Describe the effect of a rift valley on the following:-	
	(i) Transport.	(3mks)
	(ii) Agriculture.	(3mks)
<b>(d</b> )	(i) Describe how block mountains influence climate.	(4mks)
	(ii) Give <b>three</b> significanceof faulting to human activities.	(3mks)
(e)	Differentiate between symmetrical folds and asymmetrical folds.	(2mks)
10.	(a) What is the difference between weathering and mass wasting?	(2mks)
	(b) Give two processes involved in each of the following types of weathering	ng:-
	Physical weathering.	(2mks)
<b>(i)</b>	Chemical weathering.	(2mks)
(c)	(i)Apart from plants, give four other factors that influence the rate of weather	ering. (4mks)
(	(ii) Explaintwo ways in which plants cause weathering.	(4mks)
( <b>d</b> )	Describe how an exfoliation dome is formed.	(5mks)
(e)	Explain <b>three</b> effects of mass wasting on the environment.	(6mks)

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INDEX NO:	CANDIDATE'S SIGNATUI	RE:
K.C.S.E TO	DATE: P EXAMINERS' MOCK S	SERIES 1
Ql	<b>UESTION PAPER NO: 5</b>	
312/1 GEOGRAPHY PAPER I TIME: 2 ¾ HOURS SECTION A		
Answer ALL the questions in		
_	vs the structure of the earth. Use it to an	swer question (a).  Atmosphere
a) Name the parts marked I		Authosphere
2. a) Identify <b>two</b> forms of	cs of the troposphere. (3mrks) rock metamorphism. (2mrks) valent of the following intrusive  (1mrk)  (1mrk)	CRUST F E
iii) Gabbro	(1mrk)	1,200.0
<b>3.</b> a) What is a seismic way	e.	(2mrks)
b) State three ways in w	hich earthquakes affect human activitie	s. <b>(3mrks)</b>
<b>4.</b> a) Differentiate between	illuviation and salinization.	(2mrks)
b) State <b>three</b> importance of v	water as a soil property.	(3mrks)
<b>5.</b> a) Identify <b>two</b> types of o	deltas.	(2mrks)
<b>b</b> ) State three conditions	that are ideal for the formation of a delt	ta. (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 f	ollowing qu	uestions.
	a)i) Give the six figure grid reference of the trigonometrical	station (oth	er) to the north
	east of Gikongoro.	(1mrk)	
	ii) Measure the length of the dry weather road from the junc	tion at Geta	aiga to the
	junction at Kaongo. Give 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 alo	ong easting 56
	from grid reference 560,830 to grid reference 560,890.	(4mrks)	
	-On the cross-section mark and label the following.		
	River iraru.		(1mrk)
	Dry weather road.		(1mrk)
	Main track.		(1mrk)
	ii) Calculate the vertical exaggeration.	(2mrks	s)
c)	Describe the relief of the area covered by the map.	(5mrks)	
d)	Form four students from Nkubu School carried out a field stu	ıdy on distı	ibution of
	settlement in the area covered by the map.		
i)	State two reasons why they had to divide themselves into gro	oups.	(2mrks)
ii)	Identity two settlement patterns they studied.		(2mrks)

(3mrks)

iii) State three follow-up activities they might have carried after the study.

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 the land scape i) Formulate two null-hypotheses for the studies. (2mrks)ii) Name two drainage features you are likely to study. (2mrks)iii) State two methods you would use to record information during the study. (2mrks) 8. a) i) What is reverse fault (2mrks) ii) The diagram below represents an area affected by faulting. Name the parts marked E, F and G (3mrks) b) Describe the processes involved in the formation of the following features: i) Fault step. (5mrks) ii) Rift valley by anticlinal arching. (7mrks) c) Explain four ways in which block mountains FAULT influence climate. (8mrks)a) Name two mountains in East Africa where congelifraction is common. 9. b) Describe the following types of weathering: i) Pressure release. (5mrks) ii) Hydration. (4mrks)

(4mrks) iii) Oxidation. c) Explain three ways in which plants cause weathering. **(6mrks)** d) i) what is an avalanche. (1mrk) ii) State three effects of avalanche. (3mrks) (2mrks) **10.** a) i) what is a spring? 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)

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		K.C	C.S.E TOP EXAMINERS'	MOCK SERIES 1
			QUESTION PAPE	R NO: 6
PAl	OGRA PER I	АРНҮ : 34 НО		
	SEC	TION	A(25 marks)	
	Ansv	ver all	the question this section.	
1.(a	)Nam	e <b>thre</b> c	<b>e</b> transitional zone of the atmosphere	(3mks)
<b>(b</b> )	) Give	two fa	actors that cause variation in the radiation	ons reaching the earth's surface (2mks)
2.(a	ı)(i)	Defin	ne an earth tremor	(1mk)
		(ii)	Name <b>two</b> characteristics s – waves g	enerated by an earthquake (2mks)
		(iii)	State <b>two</b> effects of earth quakes on the	ne physical environment (2mks)
3.(a	The o	diagrar	m below shows a river capture. Name th	ne parts marked K and L (2mks)
(b	)Outli	ne <b>thr</b>	ee ways through which a gorge is form	ed (3mks)
4.	(a)	State	e two causes of vertical movement of oc	ean water / (2mks)
	<b>(b)</b>	Ident	tify <b>three</b> features found on the ocean fl	loor (3mks)
5.	(a)	Disti	inguish between mass wasting and mass	movement (2mks)
	<b>(b)</b>	Nam	te three processes of chemical weathering	ng (3mks)

### **SECTION B (75 marks)**

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

<b>6.</b> Study the map of NK	<b>6.</b> Study the map of NKUBU (1:50,000) sheet 122/1 provided and answer the following questions.			
(a) (i) What feature is f	(a) (i) What feature is found at grid reference 564863? (1mk)			
(ii) What is the dire	ection of Igadance forest (grid reference 47	5870) from Nkuba divisional		
Headquarters?	(1mk)			
(iii)Name three human	– made features found in grid square 518	4. <b>(3mks)</b>		
(iv)What is the vertical	interval of the map?	(1mk)		
(b)(i) Using a vertical s	cale of 1 cm to represent 50m, draw a cros	ss section from grid reference		
560980.	(5mks)			
(ii)	On the cross – section mark and label the	e following:		
	. A road			
	. A river			
	. A swamp	(3mks)		
(iii)	Calculate the vertical exaggeration of the	e cross – section. (2mks)		
(c) Citing evidence fr	om the map explain the reason why the ar	ea is suitable for coffee farming		
	(6mks)			
(d) Describe the relief	f of the area covered by the map. (3.	mks)		

**7.(a)** (i) What is a rock?

**(2mks)** 

- (ii) Describe three ways through which sedimentary rocks are formed. (6mks)
- (b) Describe the process through which sedimentary rocks change to metamorphic rocks (4mks)
  - (c) Give examples of each of the following igneous rocks

(i) Plutonic rock

(1mk)

(ii) Hypabyssal rock

(1mk)

(iii) Volcanic rock

(1mk)

- (d) Students from a secondary school were to carry out a field study of rocks within their district
- (i) Name **three** secondary sources of information they would use to prepare for the field study (3mks)
- (ii) State four activities they would carry out during the field study. (4mks)
- (iii) State **three** problems they are likely to face during the study. (3mks)
- 8. (a) The diagram below shows a glaciated landscape. Use it to answer the questions that follow.
- (i) Identify the feature labeled M and N (2mks)
- (ii) Name two process through which feature marked N is formed. (2mks)
- (iii) Describe how feature marked N is formed. (5mks)
- (b) (i) Name **two** types of moraine (2mks)
  - (ii) Explain **two** factors that determine the speed of ice movement (4mks)
- (c) Students from a school near Mt. Kenya were planning to carry out a field study of the glaciated features on top of the mountain
  - (i) State **two** reasons why they need to conduct a pre-visit (2mks)
  - (ii) Give **three** challenges they would likely to face during their field study (3mks)
- (iii) Give **five** significance of the glaciated landscape they observed during their field study on the human activities (5mks)

9. (a) Define a desert

(2mmks)

- (b) (i) State **four** types of deserts depending on the nature of their surfaces (**4mks**)
  - (ii) Name **three** features in arid regions that are associated with wind deposition.

(**3mks**)

(c) Using well labeled diagrams describe the formation of the following resultant features of the wind erosion

(i) Yardang

(4mks)

(ii) Rock pedestal

**(4mks)** 

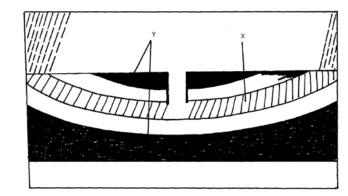
- (d) Suppose you were to carry out a field study on desert land forms.
  - (i) State **two** objectives and one hypothesis for your study.

(3mks)

(ii) Give **two** methods you would use to collect your data.

(2mks)

- (iii) State any three challenges you are likely to face during your study. (3mks)
- **10.** (a) The diagram below shows an artesian well.
  - (i) Name the parts labeled X and Y(2mks)
  - (ii) Explain **four** conditions necessary for the formation of artesian wells **(8mks)**
  - (b)(i) State **three** ways in which springs form (3mks)



- (ii)Explain **three** significance of underground water to the physical and human environment (6mks)
- (c) You have been asked to carry out a field study in a Karst landscape
  - (i) State **two** hypothesis of your study.

(2mks)

(ii) Give **four** reasons why it is necessary to carry out a pre-visit before the study. **(4mks)** 

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## K.C.S.E TOP EXAMINERS' MOCK SERIES 1 QUESTION PAPER NO: 7

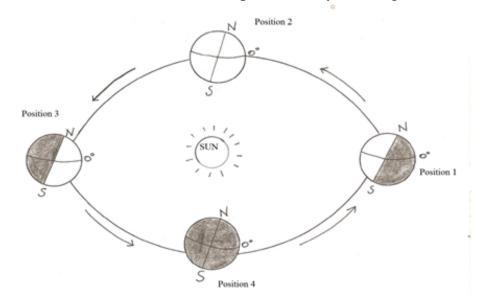
312/1 GEOGRAPHY PAPER I

TIME: 2 ¾ HOURS

#### **SECTION A**

### Answer all the questions in this section

- 1. (a) State two effects of the rotation of the earth (2mks)
  - **(b)** Study the diagram below and answer the questions that follow
  - (c) Which movement of the earth is represented by the diagram (1mk)
  - (d) Give two effects of the movement represented by the diagram (2mks)



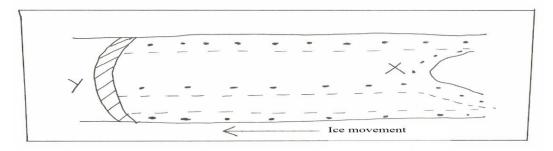
2.	(a)	What is a metamorphic rock?	(2mks)
	(b)	Complete the table below	(3mks)

Original rock	Through metamorphism changes to:
clay	
sandstone	
limestone	

- 3. (a) Name 2 major types of earth movement that occurs within the earth crust (2mks)
  - (b) State 3 ways in which the earth's crust is affected by earthquakes (3mks)
- **4.** (a) Name the three classes of soils based on historical development (3mks)
  - (b) What is soil pH?

**(2mks)** 

**5.** Use the diagram below to answer question (a) and (b)



- (a) Name the type of movement marked X and Y (2mks)
- (b) Explain how the moraine marked Y is formed (3mks)

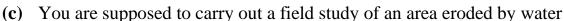
### **SECTION B**

### Answer Question 6 and any two other questions from this section)

6. Study the map of Nkubu (1:50000) sheet 122/1 provided and answer questions			answer the following	
	(a)	Nan	ne two man-made features found in grid square 58	86. ( <b>2mks</b> )
	<b>(b)</b>	<b>(i)</b>	Describe the distribution of the population at the	e area enclosed by
			Easting 56 and 60 and to the South of northing 9	0. <b>(2mks)</b>
		(ii)	State three factors that are likely to have influen	ced the distribution
		of the	e population of the area covered by the map	(3mks)
(c)	(i)	Wha	at was the direction of the school at Mutiokarina for	om the trigonometrical
		stati	on at the grid square 5689?	(2mks)
	(ii)	_	evidence from the map explain four factors that n kine market	hay have led to the growth of (8mks)
( <b>d</b> )(	(i) S	ketch t	he area bordered by Eastings 40 and 45 and North	ing 83 and 90 in
	tł	ne same	e length and width as it appears on the map indica	ing the four figure grid
	re	eferenc	e for each corner	(4mks)
	(ii)	On t	he sketch map mark and label the following featu	res:
		-	Thunguru hills forest	(1mk)
		-	Dry weather road	(1mk)
		-	Marungurune school	(1mk)
		-	Kithangari church	(1mk)

7.	(a)	Nam	e three types of faults	(3mks)	
<b>(b)</b>	(i)	With the aid and of well-labelled diagrams, explain has tensional forces can		onal forces can	
	lead to the formation of a Rift Valley			(7mks)	
		(ii)	Give two examples of escarpments in East African	(2mks)	
	(c)	Expl	ain four ways in which feature resulting from faulting are	e of economic	
		impo	ortance	(4mks)	
(d) scho			to carry out a field study on the landforms resulting either where else	er near your	
	(i)	State	two objectives of such a study	(2mks)	
	(ii)	State	two hypothesis for the study	(2mks)	
	(iii)	State	two methods you would use to record the information y	ou would collect (2mks)	
	(iv)	Wha	t problems are likely to be faced during such a study	(3mks)	
8.	(a)	(i)	Define natural vegetation	(1mk)	
		(ii)	State four characteristics of national vegetation found i	n tropical rain	
			Forests (4mks)		
	<b>(b)</b>	Expl	ain four ways in which vegetation found in arid areas ada	apts to environmental	
	co	ndition	s of the region	(8mks)	
(c)	Writ	e the n	ames of the grasslands found in the following areas	(3mks)	
	(i)	East Africa			
	(ii)	Cana	nda		
	(iii)	Arge	entina		
(d)	(i)	Give	two reasons why Tundra region has scanty vegetation	(2mks)	
	(ii)	State	two topographical factors that influence vegetation distr	ibution (2mks)	
<b>(e)</b>	State	e five e	conomic importance of vegetation	(5mks)	

- 9. (a) What is a river capture? (2mks)
  - (b)State four ways in which a river transport the load (4mks)
  - (c)Explain how each of the following factors determine the volume of run-off (2mks)
    - (i) Amount and duration of rain fall (2mks)
    - (ii) Vegetation cover (2mks)
    - (iii) Permeability of the ground (2mks)
- (d) A form 4 geography class is planning to carry out a field study of a water fall near their school.
  - (i) State nine ways in which they would prepare for the study (9mks)
  - (ii) Give four methods they would use to collect information at the water fall (4mks)
- **10.** The diagram below represents underground features in a limestone area. Use it to answer question (a)
- (a) (i) Name the features marked X, V and W(3mks)
  - (ii)Describe how the feature marked Y is formed(6mks)
- (b) (i) What is an artesian basin (2mks)
  - (ii)Explain 3 factors which influence the formation of features in limestone areas (6mks)



- (i) Give 3 reasons why you would need a map of the area of study (3mks)
- (ii)Name 2 erosional features you are likely to identify during the field study (2mks)
- (iii) State three recommendations that you would make from your study to assist the local community to rehabilitate the eroded area (3mks)

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		K.C.S.E TOP EXAMINERS' MOCK SI	ERIES 1
		<b>QUESTION PAPER NO: 8</b>	
PA	OGR PER	34 HOURS	
		Answer all questions in this section	
1.	Give	three reasons why we study plate tectonic theory	(3mks)
	<b>b</b> )	State two types of earth movement	(2mks)
	c)	List three causes of earth movement.	(3mks)
2.	State	e three things the rotation of the earth causes	(3mks)
3.	State	three characteristics of the mantle.	(3mks)
4.	Desc	cribe continental drift theory.	(4mks)
5.	a)	State four proofs that the earth is spherical	( 4mks)
	<b>b</b> )	State three characteristics of inter- tropical convergence zon	e (ITCZ) (3mks)

### SECTION B (5mks)

### Answer question 6 and any other two questions in this section

<b>6.</b> Study the map of Kericho 1:50,000 provided and answer the following questions.								
	a) Name two types of natural vegetation found in the area covered by the map.							
	b) Name two types of roads used in transportation in the area (2mks)							
<ul> <li>c) Name two man- made features found at grid square 5346 (2mks)</li> <li>d) Citing evidence from the map, state three economic activities carried out n the area. (</li> <li>e) Using a vertical scale of 1 cm to represent 20m.</li> </ul>								
								(3mks)
								ii)
			a) River					
			b) Main track (motorable).	(2mks)				
		iii)	wn. <b>(2mks)</b>					
	f)	i)	Describe the relief of the area covered by the map.	(3mks)				
		ii)	(3mks)					
	<b>g</b> )	(3mks)						

7.	a)	What is w	(4mks)				
	b)	State four	factors that influence weathering	(4mks)			
	c)	Describe	Five processes involved in chemical weathering	(10mks)			
	d)	Describe	four physical weathering processes which take place in the a	arid areas (8mks)			
8.	a)	List three	(3mks)				
	b)	Name three processes through which wind erodes a desert landscape. (3mks)					
	c)	Explain three ways through which wind transports it load. (6m)					
	d)	Describe how the following desert features are formed.					
		i) Ya	rdangs	(3mks)			
		ii) Ro	ck Pedestals	(3mks)			
		iii) Wa	ndis				
	e)	State four	ways in which desert features are significant to human activ	vities. (4mks)			
9.	a)	List four	(4mks)				
	b)	Explain w	(6mks)				
	c)	Describe					
		i) Cal	ldera by violet eruptions.	(4mks)			
		ii) Ho	t springs	(4mks)			
		iii) Co	mposite volcano	(4mks)			
	d)	State five	ways in which volcanicity is of benefit to human activities.	(5mks)			

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<b>DATE:</b>						
K.C.S.E TOP EXAMINERS' MOCK SE	RIES 1					
<b>QUESTION PAPER NO: 9</b>						
Kenya Certificate of Secondary Education, 312/1, Geography Paper SECTION A	r 1,					
Answer All Questions						
1. (a) Define Geography	(2marks)					
(b) Give two reasons to explain why the interior of the earth is hot	(2marks)					
(c) Distinguish between meteors and meteorites	(2marks)					
2. (a)Identify the types of folds shown	(2marks)					
(b)State three negative effects of folding on human activities (3marks)						
3. (a) State two causes of soil creep (2marks)						
(b) The diagram below shows rock creep.	<b>†</b>					
Name the parts marked P,Q,R (3marks)	E					
4. (a) Identify the features C, D, &E shown in the diagram (3marks)						
(b)State two causes of river rejuvenation (2marks)						
5. (a) State two physical factors that contribute to the development of Sah	nara Desert. ( <b>2marks</b> )					
(b)Draw a well labeled diagram to show a Zeugen.	(2marks)					

6. Study the map of Kitale scale 1:50,000(she questions that follow.	eet 75/3) provided and	answer the
(a) (i) Give the bearing of the trigonometrics water hole at grid 3127	al station secondary at (2marks)	grid 2823 from the
(ii)Give the magnetic variation of the area cov	vered by the map extr	act (1mark)
(b) Name three types of settlement patterns to	ract (3marks)	
(c) (i)Draw a cross section from the grid referstation at grid square 3932. (Use a scale of	-	os trigonometrical (2marks)
On your cross section, mark and label the foll	owing:	
(a) Dam	(1mark)	
(b) River Saiwa	(1mark)	
(c)Forest boundary	(1mark)	
(ii)Calculate the gradient between the dam an	(2marks)	
(d) (i) Explain 3 factors that favour the growi	ng of wattle in	
the area covered by the map.	(6marks)	
(ii)Give two evidences showing why the area	(2marks)	
(e) Draw a rectangle 7.2 cm to 10 cm represe West of Eastings 30 and South of Northin	(1mark)	
On it mark and label the following  (a) Kitale municipality		(1mark)
(b)All weather roads loose surface		(1mark)
(c)Koitobos river		(1mark)

Differentiate between vulcanicity & volcanicity. 7. (a) (i) (2 marks) Draw the map of Kenya. (1 mark) On it locate and name: M-mau escarpment. (1 mark) O-lake Magadi (1 mark) Y – Yatta plateau (1 mark) (b) With the aid of a well labeled diagram describe how the following features are formed: Lava plateau. (5 marks) (i) (ii) sill (3 marks) (c) (i) Give two characteristics of the Gregory rift valley. (2 marks) (ii) You have been asked to carry out a field study on faulting in the Rift Valley, design a working schedule to use during the study. (3 marks) (d)Explain three negative influences of vulcanicity and associated features on human activities in Kenya. (6 marks) **8.** (a) (i) Differentiate between a barrier reef and a fringing reef (2marks) (ii) Give three causes of oceans currents (3marks) (b) The diagram below shows Coastal features. Use it to answer questions b (i). (i)Name the coastal features marked H,J,K,L (4marks) (c) With the aid of diagrams describe how a wave cut platform is formed (6marks) (d)Explain how the following factors influence Mainla development of coasts (i) Climate (2marks) (ii)Gradient of the Coast (2marks) (e) Your class intends to carry out a field study on the features along the coast of Kenya. (i) Why would they need to carry out reconnaissance (3marks)

(3marks)

(ii)Give three disadvantages of using observation to collect data

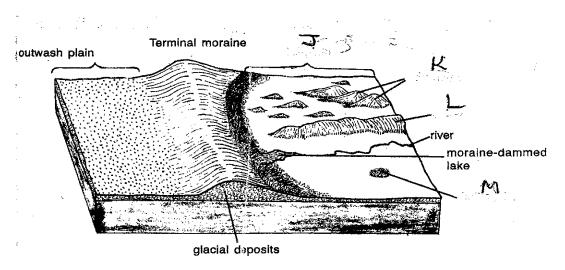
9. (a) Distinguish between glacial till and fluvio-glacial deposits

(2marks)

(b) Explain three factors that determine the rate at which ice moves.

(6marks)

(c) The diagram below shows depositional features in lowlands



(i) Name the features marked J, K,L and M.

(4 marks)

- (ii) Describe how the following features are formed:
- moraine dammed lake

(4marks)

- outwash plain

(4marks)

- (d) Students from Meru high school intend to carry out a field study on features of glaciations on Mt Kenya
- (i) Identify two methods they will use to collect data.

(2marks)

(ii)State one negative effect they are likely to identify

(1marks)

(iii)State two follow up activities they are likely to engage in

(2marks)

10. (a) (i)State three characteristics of ITCZ

(3marks)

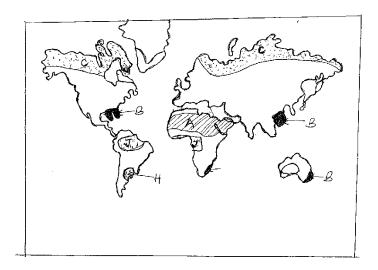
- (ii) Describe the following factors influence climate
- configuration of the coastline

(2marks)

• Distance from the sea

(2marks)

(b)Study the world map provided and use it the answer the questions below.



(i) Name the climatic regions A,B,C

(3marks)

(ii) Name the vegetation type marked H&J

(2marks)

- (iii) Explain three ways in which coniferous forests have adapted to the climatic conditions (6marks)
- (c) You carried out a field study in a marginal area experiencing encroachment of desert conditions

(i) State two objectives for your study.

(2marks)

(ii) How would you record your findings during the study?

(2marks)

(iv) Describe three findings on the causes of the encroachment

(3marks)

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			QUE	STIO	N PAP	ER N	0: 10	)		
			312/1		RAPHY CTION A.	PAPER	I			
			Answer		estions in	this sect	ion			
1.a	) List	any tw	o branches of phy	_				(2mks)		
		•	y <b>three</b> practical				dying (	, ,	a subject.	
			below shown the		-	_			· ·	y i
		_	he questions that					A	•	_
a)			sition is the moor		o be for :					
		i)	Solar eclipse to	•	(1mk)		1/.	\ \ p		
		ii)	Lunar eclipse to				D, ( I	Earth B	Su	n
<b>b</b> ) ]	If the 1	ocal tii	me at longitude 1				//	<u> </u>	\	
ŕ			e the local time at		-		\	Moon's orbit	\	_
				U		Ļ				_
3.	The in	nstrum	ent below is used	to meas	sure an ele	ment of w	veather	. Study it and	answer the	3
	quest	ions be	elow.							
	<b>a</b> )	i)	Name the liquid	l marked	1 X (1mk)	)		GLASS TUBE		
		ii)	Identify the inst	rument	shown abo	ove (1mk	<b>(</b> )	X =	1	
	<b>b</b> )	Desc	ribe how the inst	rument a	ibove worl	ks. (3ml	(s)		HEIGHT OF COLUMN AT S LEVEL 760 MM	EA
4.	<b>a</b> )	Expl	ain briefly how th	e follow	ving factor	'S	ŕ	=== Y	(	
		_	uence vegetation		_				] 1	
		i)	Aspect					111111111	1	
		ii)	Precipitation				ļ			
	<b>b</b> )	Give	three reasons wh	y natura	l grassland	ds are dec	lining	in Kenya		
5.	a)	Apar	t from Rift Valle	y, name	any other	two resul	tant fea	atures of fault	ing	
	<b>b</b> )	-	any two types of		-				-	

### **SECTION B:** Answer question 6 and any other two from this section

- **6**. Study the map of Nkubu (1:50,000) sheet 122 / 1 provided and use it to answer the question that follow.
  - a) i) Convert the scale of the map into statement scale. (2mks)
    - ii) What is the approximate height of swamp to the north East of the area covered by the map.
    - **iii)** Using the marginal information give the magnetic variation of the area when the map extract was drawn.
  - b) i) Give two types of natural vegetation found to the East of Easting 55
    - **ii**) Measure the length of the section of all weather road( bound surface) from the junction in grid square 5095 to where if ends at the edge of the map extract to the north. Give your answer in Kilometres
    - **iii)** What is the bearing of Kithare coffee factory at grid square 5594 from the quarry at grid square 5899.
- c) i)Using a scale of 1cm: 20m, draw a cross section from Easting 55 to the extreme end of the map along Northing 95. On it mark and label
  - a river
  - Dry weather road
  - Dip slope
  - ii) Calculate the vertical exaggeration of the cross section above
- **d)** Describe the relief of the area covered by the map

**7.** a) Differentiate between magma and lava.

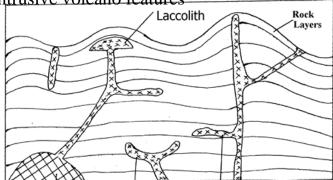


- b) The diagram below shows intrusive volcano features
  - i) Name the features marked

F (1mk)

G (1mk)

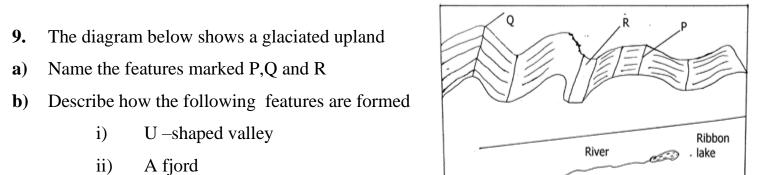
Y (1mk)



ii) Describe how hot springs are formed, givenyary one example of hot spring in Kenya.

### **(6mks)**

- c) Explain four negative influences of volcanic features on human activities
- **d**) Form two students from Moi Girls Secondary school carried out field study on volcanic rock around their school.
  - i) Give three reasons why it is necessary to rock samples during such a field study
  - ii) State three problems they are likely to experience during this study
- **8.** a) Distinguish between mass wasting aid mass movement
  - b) i) List any two types of slow mass wasting other soil creep
    - ii) Outline three evidence of soil creep
    - iii) With the aid of a well labelled diagram explain how river capture occurs
  - c) i) State three causes of river rejuvenation
    - ii) Identify two features formed as a result of river rejuvenation
  - d) Explain four wars in which human activity have affected rivers in Kenya



Glacial trough

c)i) Distinguish between a valley glacier and ice sheet

ii) Name any four features resulting from glacial deposition in lowlands

**d**)i)Form four students of manor House Academy carried out fieldwork on glaciation mount Kenya.

i) State two objectives of their study. (2mks)

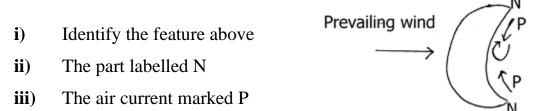
ii) Give three reasons why they need a route map. (3mks)

e) Outline five significance of upland glaciated features to human activities (5mks)

10. a)i)State three processes of wind erosion in desert areas

ii)Name four features resulting from wind erosion in desert areas

b) The diagram below shows a feature formed as a result of wind deposition in desert areas



iv) State three conditions that are necessary

For the above feature to be formed

c) i) Name any three features of karst landscape. (3mks)

ii) Give reasons why there are few settlements the karst landscape area

**d**) Outline five significance of arid landforms

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