## 312/1 GEOGRAPHY PAPER 1 JULY/AUGUST 2016 TIME: 2¾ HOURS

## KIRINYAGA CENTRAL SUB-COUNTY EFFECTIVE FORTY JOINT EXAMINATION – 2016

Kenya Certificate of Secondary Education GEOGRAPHY PAPER 1 TIME: 2<sup>3</sup>/<sub>4</sub> HOURS

## **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 from Section **B**.
- (d) All answers must be written in the answer booklet provided.
- (e) Candidates should check the question paper to ascertain that no questions are missing.
- (f) Candidates should answer the questions in English.

## SECTION A:

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

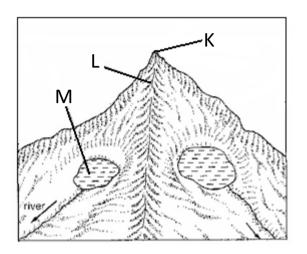
1.	(a)	Differentiate between relative humidity and absolute humidity.		(2mks)			
	(b)	State	the significance of water vapour in the atmosphere.	(3mks)			
2.	(a)	Wha	t do you understand by the term; Vertical Earth movement.	(2mks)			
	(b)	Ident	tify <b>three</b> causes of earth movement.	(3mks)			
3.	(a)	Defi	ne the term block disintegration	(2mks)			
	(b)		<b>three</b> factors influencing the rate at which weathered materials e down slope.	(3mks)			
4.	(a)		e <b>two</b> places in Kenya where karst scenery is relatively well loped.	(2mks)			
	(b)	State	three ideal conditions for development of an artesian well/basin	. (3mks)			
5.	(a)	Give	two characteristics of plutonic rocks?	(2mks)			
	(b)	State	three ways in which rocks are significant to Kenya's economy.	(3mks)			
	SECTION B: MAPWORK						
	Ansv	ver que	estion <b>6</b> and any other <b>two</b> questions from this section.				
6.	Study the map of Busia 1: 50,000 (Sheet 101/1) provided and answer the f questions.						
	(a)	(i)	What is the approximate height of Ndanyi Hill Peak in grid square 4032.	(2mks)			
		(ii)	Identify <b>two</b> natural relief features in grid square 2837.	(2mks)			
		(iii)	Name <b>two</b> types of natural vegetation to the North of Northings 45.	(2mks)			
	(b)	(i)	What is the bearing of Principal photo point in grid square 3827 from principal photo point in grid square 3131.	(2mks)			

(ii) Citing evidence from the map identify two social services offered in the area covered by the map. (4mks)

	(c)	across-section along Northing 36 from easting 29 to easting		(4mks)
		(ii)	<ul><li>On it mark and label the following</li><li>Ridge.</li><li>Loose surface road.</li><li>River.</li></ul>	(1mk) (1mk) (1mk)
		(iii)	From the cross-section you have drawn, test if the starting and end point are intervisible. (Give a reason for your answer).	(2mks)
	(d)	Desci	ribe briefly the drainage of the area covered by the map.	(4mks)
7.	(a)	(i)	Differentiate between a mineral and a rock.	(2mks)
		(ii)	Name any <b>two</b> intrusive igneous rocks.	(2mks)
	(b)	(i)	Name <b>four</b> characteristics of minerals.	(4mks)
		(ii)	Describe three ways in which sedimentary rocks are formed.	(9mks)
	(c)	Expla	in <b>four</b> significances of rocks.	(8mks)
8.	(a)	(i)	Define the term vulcanicity.	(2mks)
		(ii)	Name <b>two</b> features resulting from fissure eruptions.	(2mks)
	(b)	intrus (i) (ii)	the aid of a diagram, describe the formation of the following sive features:- Sill. Dyke.	(9mks)
		(iii)	Batholith.	
	(c)	Expla	in <b>three</b> positive effects of vulcanicity to human activities.	(6mks)
	(d)		have been asked to carry out a field study in Mount Kenya on nicity.	
		(i)	State <b>three</b> methods you would use to collect your data.	(3mks)
		(ii)	Name three follow-up activities you will undertake.	(3mks)

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- 9. (a)(i)Define the term glaciation.(2mks)(ii)Give two processes of glacial movement.(2mks)(iii)Explain three factors that enhance glacial erosion.(6mks)
  - (b) The diagram below shows features resulting from glacial erosion on a highland area.



	(i) Name the feature marked <b>K</b> , <b>L</b> and <b>M</b> .	(3mks)
	(ii) Describe how the feature marked <b>M</b> is formed.	(6mks)
(c)	Explain <b>three</b> negative effects of glaciation on the physical and human environment.	(6mks)
(a)	List three factors which contribute to the development of deserts.	(3mks)
(b)	Name three processes through which wind erodes a desert landscape.	(3mks)
(c)	Explain three ways through which wind transports its load.	(6mks)
(d)	<ul> <li>Describe how the following desert features are formed.</li> <li>(i) Yardangs.</li> <li>(ii) Rock pedestals.</li> <li>(iii) Wadis.</li> </ul>	(9mks)
(e)	State <b>four</b> ways in which desert features are significant to human activities.	(4mks)

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