312/1 GEOGRAPHY Paper 1 MARCH/APRIL 2013

Time: 23/4 hours

MOKASA JOINT EXAMINATION

Kenya Certificate of Secondary Education 312/1 Paper 1 GEOGRAPHY

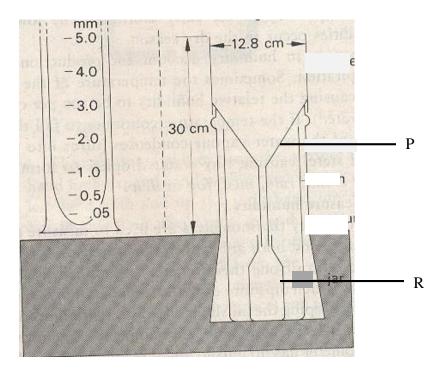
INSTRUCTIONS TO CANDIDATES

- 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 answers must be written in the answer sheets provided.

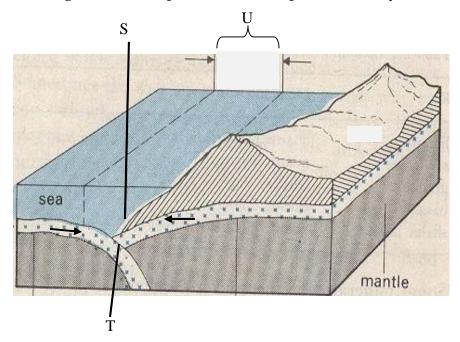
SECTION A

Answer **all** questions in this section

1. The diagram below represents a rain gauge



- (a) Name the parts marked **P** and **R**. (2 marks)
- (b) Explain how a rain gauge is used to measure rainfall. (3 marks)
- 2. (a) Name *two* types of earth movements. (2 marks)
 - (b) The diagram below represents tectonic plate boundary.



- (i) Name the features marked **S**, **T**, and **U**. (3 marks)
- 3. (a) Differentiate between seismic focus and epicenter. (2 marks)
 - (b) Name *two* types of surface longitudinal waves. (2 marks)
- 4. (a) State *two* ways through which a river transports its load. (2 marks)
 - (b) State *three* conditions necessary for the formation of a delta. (3 marks)
- 5. (a) Name *two* main types of underground water. (2 marks)
 - (b) How is a limestone pillar formed? (4 marks)

SECTION B:

Answer question ${\bf 6}$ and any ${\bf two}$ other questions from this section.

6.	Study the map of Nkubu 1:50,000 (sheet 122/1) provided and answer the following questions.				
	(a)	(i)	Give the six figure grid reference of the Trigonometric near Kaguru Farmers training centre.	cal station (2 marks)	
		(ii)	What is the bearing of the Air Photo Principal Point (1) KATHIGU from the cattle dip at Kanyakine?	15) at (2 marks)	
		(iii)	Measure the distance of the Dry Weather Road E783 f junction at Getauga to the road junction at Kaongo.	rom the road (2 marks)	
	(b)		a rectangle 13cm by 10cm to represent the area to the Vag 50 and to the north of Northing 90.	West of (1 mark)	
		On th	he rectangle, mark and name;		
		(i)	Forest	(1 mark)	
		(ii)	River Thingithu	(1 mark)	
		(iii)	Uruku Prison	(1 mark)	
	(c)	Describe the relief of the area covered by the map. (5 m			
	(d)	(i)	(i) Citing evidence from the map, give <i>four</i> economic activities cout in Nkubu area. (4 mar)		
		(ii) Explain <i>three</i> factors which have influenced the distribut settlements in the area covered by the map. (6)		bution of (6 marks)	

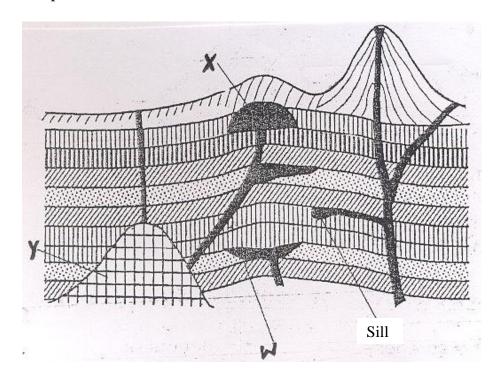
Distinguish between Magma and Lava

(2 marks)

7.

(a)

(b) The diagram below shows intrusive volcanic landforms. Use it to answer the questions that follow.



- (i) Name the features marked: **W**, **X** and **Y**. (3 marks)
- (ii) Describe how a sill is formed (4 marks)
- (c) (i) Name *two* features that result from fissure eruption (2 marks)
 - (ii) List *two* types of lava (2 marks)
- (d) (i) With the aid of a well- labelled diagram, describe how a composite volcano is formed (6 marks)
 - (ii) Explain the significance of Volcanic features to human activities. (6 marks)

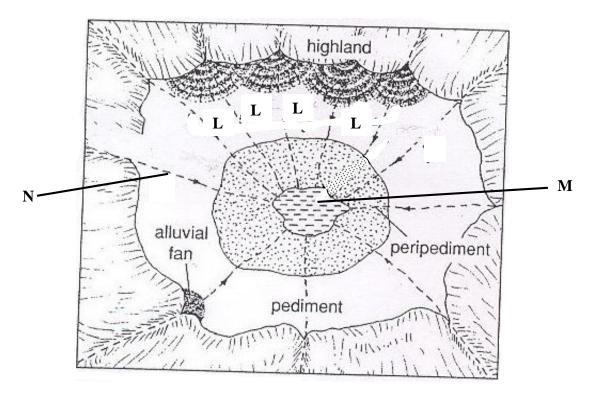
8. Use the map below to answer questions a (i) and (ii).



- (a) (i) Name *three* natural types of forests marked **J** and **K**. (2 marks)
 - (ii) Explain how the vegetation marked **J** is adapted to the climatic conditions. (6 marks)
- (b) Explain how the following factors influence distribution of vegetation.
 - (i) Soils (2 marks)
 - (ii) Wind (2 marks)
 - (iii) Slope (2 marks)
- (c) State *five* characteristics of tropical savanna grasslands. (5 marks)
- (d) A group of geography students are planning to carry out a field study on vegetation in Nandi County.
 - (i) State *three* reasons why sampling would be appropriate for this study. (3 marks)

		(ii)	Apart from collecting samples, state <i>three</i> other prima they would use to collect data on vegetation while in	•	
9.	(a)	Name	e two types of glaciers which are found on mountains in	n East Africa. (2 marks)	
	(b)	Expla	Explain how the following factors influence erosion by a glacier.		
		(i)	Nature of the underlying rock.	(2 marks)	
		(ii)	Speed of the glacier.	(2 marks)	
		(iii)	Thickness and weight of ice.	(2 marks)	
	(c)	With	n the aid of labeled diagrams, describe how an arête is formed. (6 marks)		
	(d)	(i)	Describe the process through which a roche moutonn	ee is formed. (5 marks)	
		(ii)	Explain the significance of glaciated features to huma	n activities. (6 marks)	
10. (a)		Identi	fy <i>three</i> processes of wind erosion in desert areas.	(3 marks)	
	(b)	Expla	in <i>three</i> factors Influencing wind deposition in arid are	as. (6 marks)	

(c) The diagram below shows some features found in a desert landscape. Use it to answer the following questions:



- (i) Identify the landscape shown in the diagram. (1 mark)
- (ii) Name the features marked L, M and N. (3 marks)
- (iii) Describe how feature marked L is formed. (4 marks)
- (d) Explain four negative effects of deserts to human activities (8 marks)