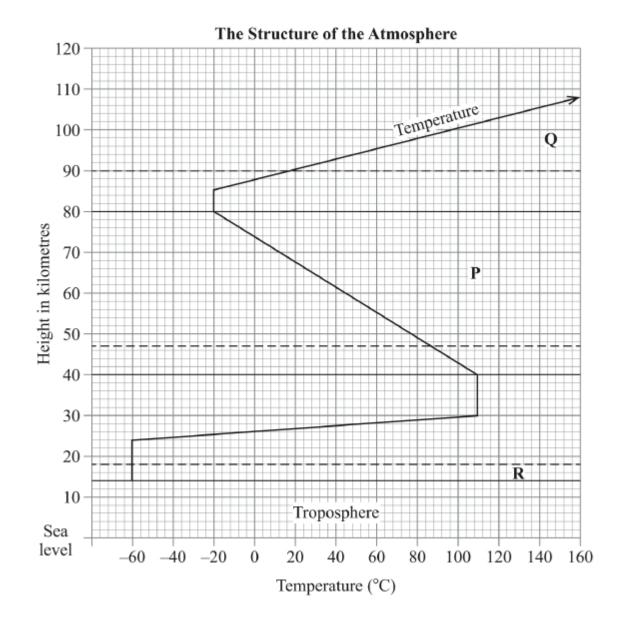
### **3.9 GEOGRAPHY (312)**

#### 3.9.1 Geography Paper 1 (312/1)

#### **SECTION A**

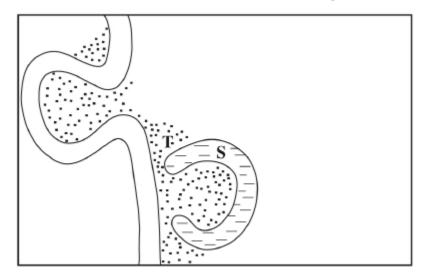
#### Answer ALL the questions in this section.

1. The diagram below represents the structure of the atmosphere. Use it to answer question (a).



- (a) Name
  - (i) the parts marked  $\mathbf{P}$  and  $\mathbf{Q}$ . (2 marks)
  - (ii) the layer of discontinuity marked  $\mathbf{R}$ . (1 mark)
- (b) State **two** characteristics of the weather conditions in the troposphere. (2 marks)
- 2. State **five** factors that influence mass wasting. (5 marks)

3. The diagram below shows a section of a river. Use it to answer the questions that follow.



- (a) Name the features marked **S** and **T**. (2 marks)
- (b) State **three** conditions that are necessary for the formation of the feature marked **S**. (3 marks)
- 4. (a) What is the difference between ice sheets and ice berg? (2 marks)
  - (b) Name **three** types of glacial moraines. (3 marks)
- 5. (a) Give **two** types of soil degeneration. (2 marks)
  - (b) State **three** economic benefits of soils. (3 marks)

#### **SECTION B**

## Answerquestion 6 and any other TWO questions from this section.

- 6. Study the map of Karatina 1:50,000 (sheet 121/3) provided and answer the following questions.
  - (a) (i) What is the four figure grid reference of the Technical Institute at Mathira? (2 marks)
    - (ii) What is the bearing of Mount Kenya Campus at grid reference 932568 from the cattle dip at grid reference 990529? (2 marks)
    - (iii) Measure the distance of the railway line from the Level Crossing at grid square 8652 to the Southern edge of the map. Give your answer in kilometres. (2 marks)
  - (b) Draw a rectangle measuring 15 cm by 10 cm to represent the area enclosed by Eastings 90 and 100 and Northing 50 and 60. (1 mark)

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On the rectangle mark and name the following:

- (i) Kirinyaga District;
- (ii) All Weather Road Bound Surface;
- (iii) Forest;
- (iv) Coffee factory.

(4 marks)

(c) Describe the distribution of the natural vegetation in the area covered by the map.

(6 marks)

(d) Identify **two** social functions of Karatina town.

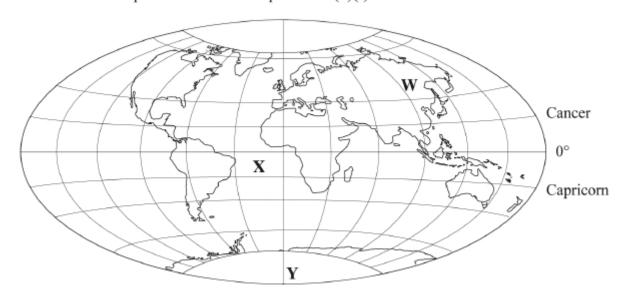
(2 marks)

- (e) Citing evidence from the map, explain **three** factors that favour trading in the area covered by the map. (6 marks)
- 7. (a) Name the first **two** planets of the solar system.

(2 marks)

(b) Explain the origin of the earth according to the Nebula Cloud Theory. (8 marks)

Use the map below to answer questions (c)(i)



- (c) (i) Name:
  - I the continent marked  $\mathbf{W}$ ;

(1 mark)

II the ocean marked **X**;

(1 mark)

III the line of longitude marked **Y**.

(1 mark)

(ii) Give **two** reasons why the earth has a spherical shape.

(4 marks)

(iii) State **four** effects of the rotation of the earth on its axis.

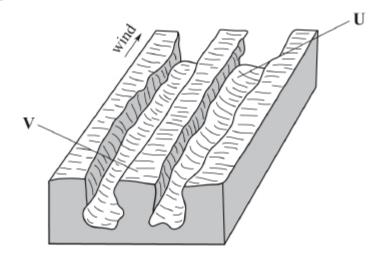
(4 marks)

	(d)	Descril	be the structure of the earth's crust.	(4 marks)
3.	(a)	What is	s volcanicity?	(2 marks)
	(b)	(i)	Apart from a sill, name <b>three</b> other intrusive volcanic features.	(3 marks)
		(ii)	Describe how the following features are formed:	
			I a sill;	(3 marks)
			II hot springs;	(5 marks)
			III a caldera.	(4 marks)
	(c)	Explain	n <b>four</b> negative effects of earthquakes.	(8 marks)
).	(a)	What is	s vegetation?	(2 marks)
	(b)	Explain	n how the following factors influence the distribution of vegetation:	
		(i)	relief	(2 marks)
		(ii)	soils.	(4 marks)
	(c)	Descril	be the characteristics of the savanna vegetation region.	(6 marks)
	(d)	You are planning to carry out a field study in a forest.		
		(i)	Give <b>four</b> reasons why it is important to seek permission from the scholadministration.	ool (4 marks)
		(ii)	List <b>three</b> sources of information you are likely to use before the actual study.	l field (3 marks)
		(iii)	Identify <b>four</b> challenges you are likely to encounter during the field stu	ıdy. (4 marks)

# 10. (a) (i) Name **two** major deserts found in Africa.

(2 marks)

The diagram below represents features resulting from wind erosion in a desert. Use it to answer question a(ii).



(ii) Name the features marked **U** and **V**.

(2 marks)

(b) Describe the **three** processes through which wind transports its load.

(6 marks)

(c) Using a well labelled diagram, describe how a barchan is formed.

(7 marks)

(d) Explain **four** ways in which desert features are of significance to human activities.

(8 marks)