## Term 1 - 2024

# GEOGRAPHY (312)

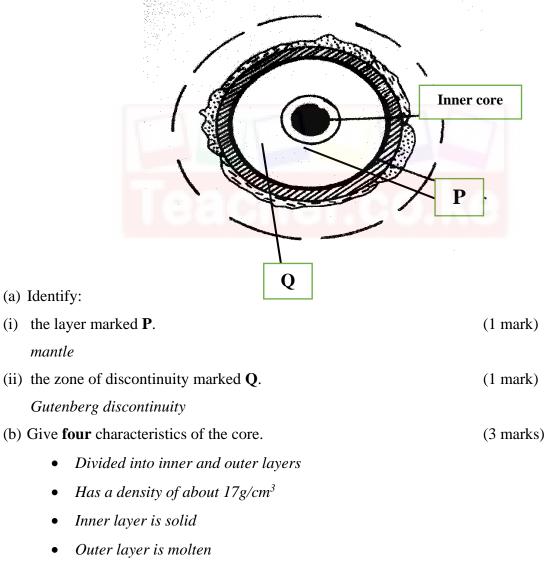
# FORM ONE (1)

#### Time: 1 ¾ Hours MARKING SCHEME

## **SECTION A**

## Answer ALL the questions

1. The diagram below shows the internal structure of the earth. Use to answer question (a) and (b).



• Has high temperature

- (2 marks) • Name three natural satellites. (3 marks) The Galilean Sisters Moons Calisto Make-make **Triton** Give two effects of rotation of the earth. (2 marks) (a) Causes day and night • *Causes a difference in time between any two longitudes* Causes rise and fall in tides • Causes deflection of winds and ocean currents State four reasons why the study of geography is important. (4 marks) creates international awareness
  - helps learners acquire skills like observation, map reading and interpretation. •
  - Promotes positive attitudes towards management and conservation of environment •
  - Enables learners to be good time managers through drawing work schedule for • fieldwork.
  - It is an entry into various careers

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#### Dominant minerals are iron and nickel •

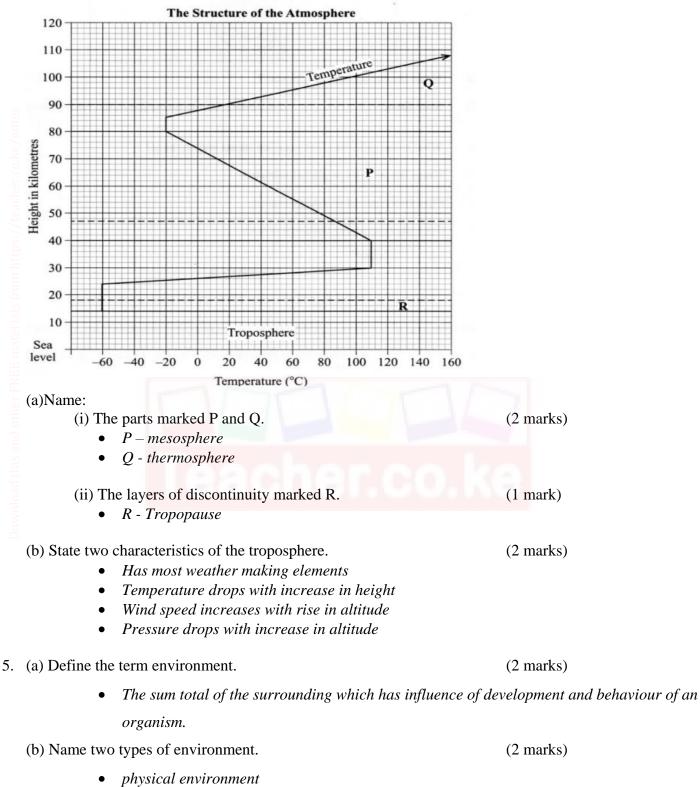
- Describe the solar system? (a)
  - This refers to the sun, the planets and other heavenly bodies revolving around the sun.
  - (b)

(b)

3.

2.





4. The diagram below represents the structure of the atmosphere.

# **SECTION B**

human environment

	Answer ALL the question		
(a)	<ul> <li>(i) Define the term geography.</li> <li><i>The scientific study of earth as home of man.</i></li> </ul>	(2 marks)	
	• The scientific study of earth as nome of man.		
	(ii) Give three branches of geography.	(3 marks)	
	Physical geography		
	<ul> <li>Human and economic geography</li> <li>Brastical accompany</li> </ul>		
(b)	• <i>Practical geography</i> Explain the relationship between geography and the fo	llowing disciplines;	
	(i) Chemistry.	(2 marks)	
	• Knowledge of chemistry is used to understand the chemical properties of rocks and		
	<i>minerals.</i> (ii) Agriculture.	(2 marks)	
	• The study of climate helps to understand the dis		
	the world.		
(c)	Explain three reasons why the interior of the earth is still h		
• The weight of the overlying crustal rocks exerts great pressure in the interior of th		s great pressure in the interior of the earth	
	generating heat.	generating heat.	
• The slow cooling process of the interior of the earth compared to th		e earth compared to the exterior since the	
	formation of the earth has led to retention of he	eat.	
	• Radioactivity in the interior of the earth during	nuclear fission generate a lot of heat.	
(d) (i) Describe the formation of the earth according to Passing Star Theory. (4 marks)			
	• A star with greater gravitational force than that of the sun passed near the sun.		
	• It pulled materials from the sun.		
	• Heavier materials coalesced and formed the interior of the earth.		
	• Lighter materials remained to form gases and the atmosphere.		
	(ii) State two weaknesses of above theory.	(2 marks)	
	• The origin of the star is not mentioned.		
	• Hot gaseous materials from the sun would have	e dispersed rather than condense.	
(e)	Name any four weather elements.	(4 marks)	
	• Sunshine		
	Atmospheric pressure		
	• Wind		

• Temperature

6.



- Precipitation
- Cloud cover
- Humidity

i) What is a weather station?

- A place set aside for observing, measuring and recording of weather elements.
- ii) State four factors influencing the siting of a weather station. (4 marks)
  - A place with clear view of the surrounding.
  - A place far from tall trees and buildings.
  - A relatively level area free from flooding.
  - A fenced area for security purposes.
- b) Explain how the following factors affect temperature:

(i) Aspect.

- Slopes facing the sun are warmer than those facing away from the sun.
- (ii) Ocean currents.
  - Warm moist onshore winds become chilly upon crossing cold ocean currents thus lowering temperature of adjacent land areas.

(ii) Altitude.

(2 marks)

(2 marks)

(2 marks)

- *High altitudes have low temperatures because of thin atmosphere allowing terrestrial radiation to escape.*
- Low altitudes have high temperatures due to thick atmospheric concentration blocking terrestrial radiation from escaping.

c) Study the diagram below and use it to answer the questions that follow.

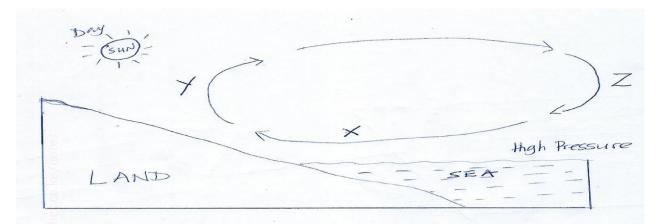


7.

a)

(2 marks)





Label the parts marked X, Y and Z

(2 marks)

• *X* – *sea breeze* 

i)

- *Y*-*Rising warm moist air*
- *Z Descending cold air*
- ii) Identify areas in Western Kenya where the phenomenon shown in the diagram above commonly occurs. (1 marks)
  - Lake Victoria region

c) With aid of a well labeled diagram, describe formation of relief rainfall. (6 marks)

- During the day, land heats faster than the sea.
- Low pressure is created over the land as the sea surface remains under high pressure.
- Moist wind moves from the sea to the land.
- It meets a hill and rises up.
- In the process it cools, condenses and forms clouds on the windward side.
- Later when the clouds are too heavy they fall back as relief rainfall.
- d) Give four reasons why weather forecasting is important. (4 marks)
  - Used by farmers to plan their activities.
  - *Helps in planning for sporting activities.*
  - Used in aviation to plan take off and landing of aircrafts.
  - Used in designing of clothes and houses.