

| NAME | CLASS | INDEX NO. |
|------|-------|-----------|
|      |       |           |



## ST. PATRICK'S SCHOOL TERM 2 GRADED ASSESSMENT 2024

**SUBJECT : Geography**

**DATE : 7 MAY 2024**

**LEVEL : Secondary 1 G3**

**DURATION: 50 min**

### READ THESE INSTRUCTIONS FIRST

Write all answers in the space provided in this question paper.

Write your name, class and index number on all the work you hand in.

Candidates should support their answers with the use of relevant examples.

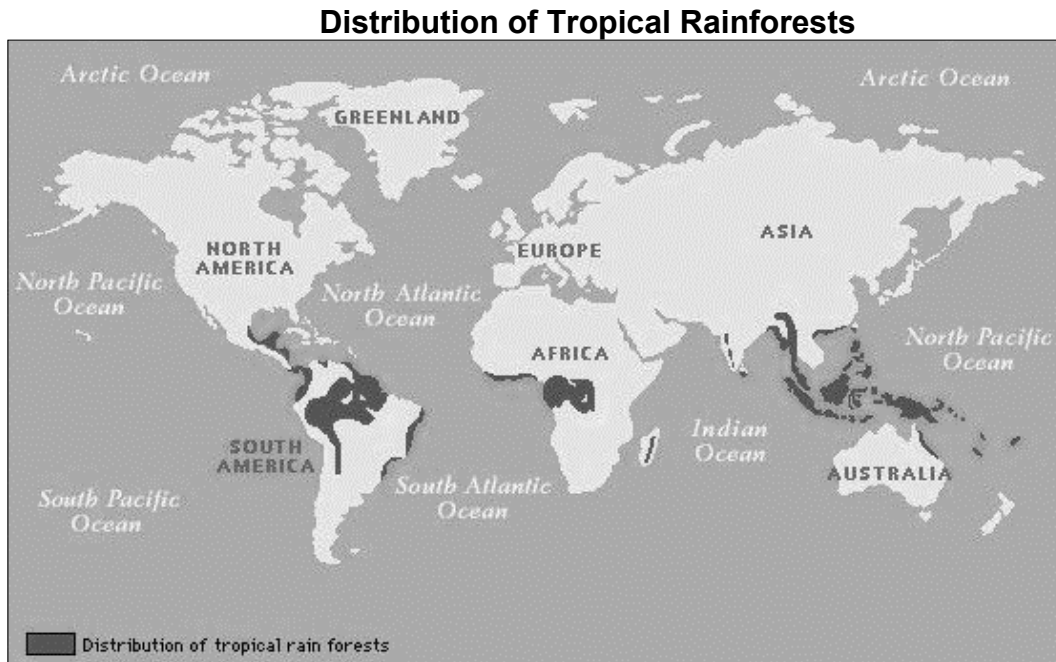
The number of marks is given in the brackets [ ] at the end of each question or part question.

|                            |                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Question 1</b>          |                                                                                                                 |
| <b>Question 2</b>          |                                                                                                                 |
| <b>Question 3</b>          |                                                                                                                 |
| <b>Question 4</b>          |                                                                                                                 |
| <b>Question 5</b>          |                                                                                                                 |
| <b>Question 6</b>          |                                                                                                                 |
| <b>Parent's Signature:</b> | <div style="border-top: 1px solid black; width: 100%; height: 100%; transform: rotate(45deg);"></div> <b>20</b> |

***This Question Paper consists of 7 printed pages, including the cover page.***

**Answer all questions.**

- 1 Study Fig. 1, which shows the distribution of tropical rainforests around the world.



- a) Study Fig. 1, identify the countries and the rainforests marked “X” and “Y”.
- X: \_\_\_\_\_ in \_\_\_\_\_
- Y: \_\_\_\_\_ in \_\_\_\_\_ [2]
- b) Tropical rainforests “X” and “Y” can be found within the tropical zones that are found between two latitude lines. State the names of these latitude lines.

\_\_\_\_\_

\_\_\_\_\_ [1]

- c) Tropical rainforests “X” and “Y” thrive under tropical climatic conditions. State the characteristics of tropical climate.

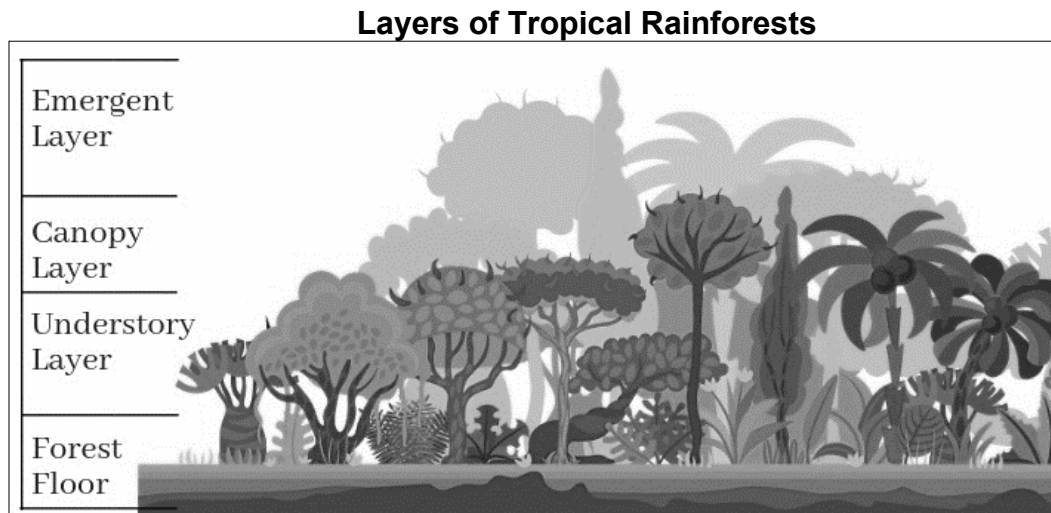
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[1]

- 2 Study Fig. 2, shows the different layers of the tropical rainforests.



**Fig. 2**

- a) State and define Layer A and Layer C of tropical rainforests.

Layer A: \_\_\_\_\_

\_\_\_\_\_

—

\_\_\_\_\_

—

Layer C: \_\_\_\_\_

\_\_\_\_\_

—

\_\_\_\_\_

—

[2]



b)

Provide reasons why Layer C receives little sunlight.

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[2]

- 3 Study Fig. 3, which shows an adaptation of a leaf found in tropical rainforests.

**An Adaptation of a Leaf in a Tropical Rainforest**



**Fig. 3**

- a) Using Fig. 3, describe an adaptation of the leaf found in tropical rainforests.

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[2]

- b) Using an example, describe another adaptation of leaves found in tropical rainforests.

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[2]

- 4 Study Fig. 4, which shows an environmental function of tropical rainforests.

**An environmental function of a Tropical Rainforest**



**Fig. 4**

- a) Using Fig. 4, describe an environmental function of tropical rainforests.

B  
)

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[2]

b)

- b) Using an example, describe another environmental function of leaves found in tropical rainforests.

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[2]

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- 5 Study Fig. 5, which shows a human function of a tropical rainforest.

**A Human Function of a Tropical Rainforest**



**Fig. 5**

Using Fig.5, describe a human use of tropical rainforests.

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[2]

- 6 Using an example, describe one consequence of extracting too much resources from tropical rainforests.

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[2]

**End of Paper**

NAME

CLASS

INDEX No.

MARK SCHEME



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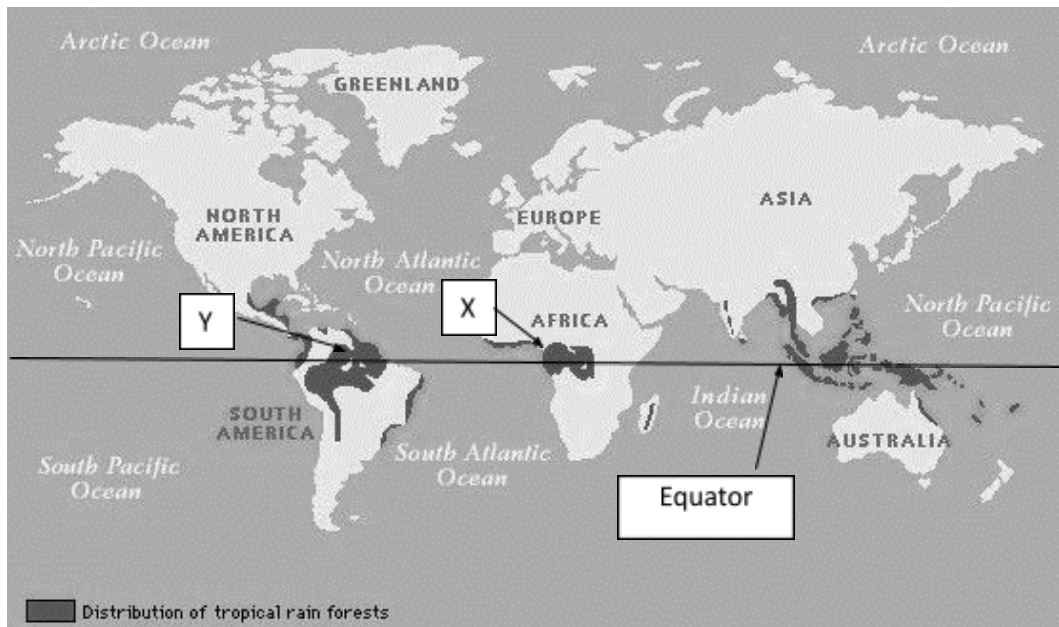
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| <b>Question 5</b>              |           |
| <b>Question 6</b>              |           |
| <b>Parent's<br/>Signature:</b> |           |
|                                | <b>20</b> |

***This Question Paper consists of 6 printed pages, including the cover page.***

**Answer all questions.**

- 1 Study Fig. 1, which shows the distribution of tropical rainforests around the world.

**Distribution of Tropical Rainforests**



**Fig. 1**

- a) Study Fig. 1, identify the countries and the rainforests marked “X” and “Y”.  
Need to add the term ‘rainforest’

Congo Rainforest [0.5] in Congo [0.5]  
Amazon Rainforest [0.5] in Brazil [0.5]

---

[2]

- b) Tropical rainforests “X” and “Y” can be found within the tropical zones that are found between two latitude lines. State the names of these latitude lines.

Tropic of Cancer [0.5]  
Tropic of Capricorn [0.5]

---

[1]

- c) Tropical rainforests “X” and “Y” thrive under tropical climatic conditions. State the characteristics of tropical climate.

Tropical climatic conditions are high annual temperature [0.5] and high annual rainfall [0.5]

---

[1]

- 2 Study Fig. 2, shows the different layers of the tropical rainforests.

### Layers of Tropical Rainforests



Fig. 2

- a) State and define Layer A and Layer C of tropical rainforests.

[2]

S – 0.5m

D – 0.5m

Layer A: (S) Emergent. (D) This refers to a layer where the tallest trees/30m and beyond in to the tropical rainforest are found.

Layer C: (S) Undergrowth/Understory. (D) This refers to a layer where very little sunlight is able to reach this layer/smallest plants of 10-20m found in this layer/seedlings of taller trees found in this layer.

- b) Provide reasons why Layer C receives little sunlight.

Cause [0.5]

Effect [0.5]

Cause: Branches of the tree found in layer B grow very close to one another

Effect: Results in a thick mass of branches and leaves

Cause: 97%/majority of sunlight is blocked out

Effect: Layer C receives very little sunlight

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[2]



- 3 Study Fig. 3, which shows an adaptation of a leaf found in tropical rainforests.

### An Adaptation of a Leaf in a Tropical Rainforest



Fig. 3

- a) Using Fig. 3, **describe** an adaptation of the leaf found in tropical rainforests.

**S/D [0.5]**

**S+D [1]**

**E [1] Accept any relevant evidence**

**(S) Drip tip (0.5m)**

**(D) This refers to leaves that have narrow, downward pointing tips to allow water to run off easily to prevent fungi and bacteria from growing on the leaves.**

**(E) In Fig.3, a water droplet is falling off the tip of the leaf. (1m)**

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[2]

- b) Using an example, describe another adaptation of **leaves** found in tropical rainforests.

S/D [0.5]

S+D [1]

E [1] Accept any relevant example

(S) Waxy Leaves

(D) Glossy appearance, leathery or hairy surface, helps plants to reduce amount of water vapour that can be lost into the atmosphere via transpiration.

(E) Rubber Trees, commonly found in Peru and Brazil

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(S) Drip Trip

(D) Narrow, downward pointing tips, which allow water to run off easily so as to prevent fungi and bacteria from growing on the leaves.

(E) Fig Tree, commonly found in Mediterranean and India

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[2]

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- 4 Study Fig. 4, which shows an environmental function of tropical rainforests.

**An environmental function of a Tropical Rainforest**



**Fig. 4**

- a) Using Fig. 4, describe an environmental function of tropical rainforests.

S/D [0.5]

S+D [1]

E [1] Accept any relevant evidence

---

(S) Habitat for Flora and Fauna

(D) Warm climate and abundance of water and food sources all year round make them very suitable habitats for animals.

(E) In Fig.4, there is a bird/toucan feeding onto a piece of fruit in the tropical rainforest.

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[2]

- b) Using an example, describe another environmental function of leaves found in tropical rainforests.

S/D [0.5]

S+D [1]

E [1] Accept any relevant example

---

*Soil erosion is not accepted.*

(S) Generate Oxygen

(D) Tropical rainforests help the earth to 'breathe'.

Generate oxygen (through photosynthesis). Capable of producing oxygen throughout the year.

(E) More than 20% of the earth's oxygen is generated by the Amazon rainforest

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(S) Carbon Storage

(D) Absorb carbon dioxide from the atmosphere during photosynthesis, helps to balance amount of CO<sub>2</sub> in the atmosphere.

(E) Absorb about 2.4 billion tonnes of carbon dioxide in one year (includes almost 1/3 of the CO<sub>2</sub> emissions given off when fossil fuels are burnt)

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[2]

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5 Study Fig. 5, which shows a human function of a tropical rainforest.

### A Human Function of a Tropical Rainforest



Fig. 5

Using Fig.5, describe a human use of tropical rainforests.

S/D [0.5]

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S+D [1]  
E [1] Accept any relevant evidence

(S) A place for recreation  
(D) People who live in towns and cities to get close to nature/have fun doing activities in the rainforest.  
(E) From Fig.5, a group of people are seen trekking on a rope bridge through the tropical rainforest.

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[2]

(S) A source of raw material  
(D) Best known for being valuable sources of wood for building and carpentry.  
(E) From Fig. 5, the materials used from the trees have been gathered to create a rope for the bridge for people to walk on within the rainforest.

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6 Using an example, describe one consequence of extracting too much resources from tropical rainforests.

S/D [0.5]  
S+D [1]  
E [1] Accept any relevant example

---

(S) Deforestation  
(D) Refers to the unsustainable cutting down of trees for their wood caused by human activities such as mining, agriculture and aquaculture.  
(E) Due to the production of oil palm plantations across Southeast Asia, South America and Africa, a total of 135,000kmsq of Tropical Rainforest are being cut down.

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(S) Enhanced Greenhouse Effect  
(D) Refers to an increase amount of carbon dioxide from the atmosphere, contributed by human activities. such as transportation and industries.  
(E) Deforestation alone is responsible for approximately 20% of the total amount of Carbon Dioxide added into the atmosphere. OR Continuous EGE will lead to an increase of global temperature up to 1.4 Degrees Celcius by 2100.

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[2]

**End of Paper**