

UNIVERSITY OF RUHUNA

2016/2017 Academic Year

B.A. (Special) Degree 2000 Level 1st Sem. 2017-Oct

GEO 21623 – Tropical Climate

Answer **Five (05)** questions only.

Answers to be written in English

Time: 03 hours

1. “Special characteristics of the troposphere has to be emphasized on studies of the vertical structure of the atmosphere”. Critically analyze the statement.

(12 Marks)

2.

i. Discuss the factors that determine the temperature of the atmosphere providing suitable examples.

(05 Marks)

ii. Describe the process of Heat Balance of the atmosphere on a global scale. Provide appropriate examples.

(07 Marks)

3.

i. Define the term Inter – Tropical Convergence Zone (ITCZ).

(05 Marks)

ii. Explain the latitudinal oscillations of the Inter – Tropical Convergence Zone, providing suitable examples.

(07 Marks)

4.

i. Briefly explain the annual monsoon cycle. Provide illustrations to your answer.

(05 Marks)

- ii. Explain how the monsoon weather system affect the climate of Sri Lanka.

(07 Marks)

5.

- i. Briefly describe the spatial distribution of the tropical rain forests in the world.

(05 Marks)

- ii. Describe the adaptations of the flora and fauna to tropical rain forest climate.

(07 Marks)

6. Write short notes on any **two (02)** of the following topics.

- i. Walker Circulation
- ii. Madden – Julian Oscillation
- iii. Hurricane MARIA, 2017

(06 Marks each)

7. Explain the importance of ocean currents in understanding the global weather situation.

(12 Marks)

8. Explain how the development of a tropical cyclonic weather system in the Bay of Bengal contributes to a natural disaster situation in Sri Lanka. Provide specific examples.

(12 Marks)

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