THE OPEN UNIVERSIT OF SRI LANKA Diploma in Environmental Science FINAL EXAMINATION - 2017/2018 BYD 1105 - PLANT EARTH AND ITS ENVIRONMENT



DURATION-TWO (2) HOUR

DATE:12th May 2018

TIME: 9.30am-11.30am

Answer any four (4) questions

- 1. a. Define the term "bio geochemical cycle"...
 - b. What is the significance of bio geochemical cycles?
 - c. Describe the **natural pathways** by which nitrogen is cycled among the biotic and abiotic components in an eco system.
- 2. a. What is meant by a "trophic level" and a "food chain" in an ecosystem?
 - b. (i) Name the different trophic levels in an ecosystem and
 - (ii) Arrange them accordingly to indicate the relationship between the trophic levels and a food chain in the ecosystem.
 - c. Briefly explain the following statements
 - (i) "Shorter food chains are more efficient .in releasing energy"
 - (ii) "In nature, isolated food chains rarely exist".
- 3. a. How would you broadly classify the "natural resources" in the biosphere? Give one (01) example for each category.
 - b. Name the major living resources found in Sri Lanka.
 - c. Write a short essay on "coral reefs found in Sri Lanka "indicating types, characteristic features, importance and human impact,
- 4. a, What is meant by "Green House Effect "?
 - b. Discuss the correlation between the "Green house effect" and the "Global warming"., while
 - indicating the effects on the environment.
- 5. What do you mean by "Plate tectonic theory"?
 - b. List the main plate boundaries found at the edge of the lithospheric plates.
 - c. Write a short account about the Convergent boundaries.

- 6. Write short notes on any **three (3)** of the following. a. Fresh water resources in Sri Lanka.

 - b. Adaptations of plants for life on earth

 - c. Main characteristics of phylum Arthropoda.
 d How does the location of the epicenter of the earthquake is located by seismologists?