

The Open University of Sri Lanka
Faculty of Natural Sciences
B.Sc/ B. Ed Degree Programme



Department	: Botany
Level	: 05
Name of the Examination	: Final Examination
Course Code and Title	: BYU5318/BYE5318/PCU3104 Environmental Studies
Academic Year	: 2020/21
Date	: 12.03.2022
Time	: 9.30a.m. – 11.30a.m.
Duration	: 2hrs

1. Read all instructions carefully before answering the questions.
2. This question paper consists of **06** questions in **01** page.
3. Answer any **04** questions only. All questions carry equal marks.
4. Answers for each question should commence from a new page.
5. Draw fully labelled diagrams where necessary
6. Involvement of any activity that is considered as an exam offence will lead to punishment.
7. Use blue or black ink to answer the questions.
8. Clearly state your index number in your answer script

1.
 - a. Define five (05) lithospheric processes operating in the lithosphere.
 - b. Briefly explain the environmental impacts of one (01) process you mentioned in “a” above.
 - c. Give a brief account on “mineral resources”.

2.
 - a. Define the term “nutrient cycling”?
 - b. “Exchange of nutrients among spheres is considered very important for the balance and persistence of life on earth”. Discuss this statement with the help of Carbon Cycle indicating reservoirs and significance.
 - c. Explain briefly the pathways through which a Sulphur (S) molecule present in fossil fuels is seen in an amino acid molecule of an animal.

3. Write an essay on “terrestrial living resources of Sri Lanka”.

4.
 - a. Distinguish between the troposphere and the stratosphere.
 - b. “The amount of Ozone in the stratosphere is dynamic”. Justify this statement with the help of your knowledge on Ozone formation and depletion.
 - c. Briefly discuss how Chloro Fluoro Carbon (CFC) acts as an Ozone depletion chemical.
 - d. Write a note on the agreements made at the Rio Earth Summit.

5.
 - a. What is meant by ‘Environmental Impact Assessment’?
 - b. What is the importance of conducting an Environmental Impact Assessment?
 - c. Briefly explain the main steps involved in the Environmental Impact Assessment process adopted in Sri Lanka.

6. Write short notes on any **three (03)** of the following.
 - a. Biopower and energy crops
 - b. Coral reefs as an ocean resource
 - c. Hazardous waste disposal
 - d. Community Interactions in an ecosystem