

THE OPEN UNIVERSITY OF SRI LANKA  
B.Sc. DEGREE PROGRAMME  
BOTANY - LEVEL 05  
FINAL EXAMINATION – 2016/17  
PCU3104 - ENVIRONMENTAL STUDIES



DURATION: TWO (02) HOURS

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DATE: 23<sup>rd</sup> January 2018

TIME: 9.30 – 11.30 a.m.

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Answer **any four (04)** questions.

1.
  - a. Define the term “lithosphere”
  - b. What are the movement types of lithospheric plates?
  - c. Based on your knowledge on lithospheric processes, explain in detail how earthquakes and tsunamis take place.
  
2. With reference to major nutrient cycles, discuss why the cycling of nutrients in nature is important as a process of linking biotic components to abiotic components indicating features and significance of the processes involved.
  
3.
  - a. What is “biomass energy”?
  - b. Explain the major types of biomass energy indicating their generation and uses.
  - c. Comment on the use of bio power to generate electricity.
  
4. Write an essay on “major air pollutants and their effects on environment”.
  
5.
  - a. What are the major sources of water pollution?
  - b. “Water pollutants cause health problems and cause ecosystem disruption”. Comment on this statement with suitable examples.
  - c. Outline the methods/techniques practiced in water remediation.
  
6. Write short notes on **any three(3)** of the following.
  - a. National Environmental Policy
  - b. Integrated effects of changes in forest cover
  - c. Differences between ocean waves and ocean tides
  - d. Formation of mineral resources