

**THE OPEN UNIVERSITY OF SRI LANKA**  
**B.Sc./B.Ed. DEGREE PROGRAMME – LEVEL 03**  
**FINAL EXAMINATION 2008/2009**



**BOTANY**

**BTU 1120/BTE 3120/NSU 1120/BTI 3120 - ENVIRONMENTAL STUDIES**

**DURATION : TWO (02) HOURS.**

**DATE : 01<sup>st</sup> January 2009**

**TIME: 09.30 a.m. – 11.30 a.m.**

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

01.
  - i. What are biogeochemical cycles?
  - ii. Diagrammatically represent the pathways of the nitrogen cycle.
  - iii. What are the differences between cycling of nitrogen in a natural forest and a legume plantation?
  
02.
  - i. Write an account of “world desertification”.
  - ii. Describe the environmental degradation caused by deforestation.
  
03. Describe soil erosion in arable lands with special reference to types, impacts and conservation measures.
  
04. ‘The coastal zone provides resources for human use’ Explain.
  
05.
  - i. Explain what is meant by “sustainable development”
  - ii. Describe the main features of the “Environment Impact Assessment” and the “ Convention on the Conservation of Biological Diversity”
  
06. Write short notes on any three (03) of the following.
  - i. Trophic structure of an ecosystem.
  - ii. Water pollution caused by industries of Sri Lanka.
  - iii. Major vegetation types of the world.
  - iv. Montreal protocol.