



**THE OPEN UNIVERSITY OF SRI LANKA**  
**POST GRADUATE DIPLOMA / MASTER OF SCIENCE IN**  
**ENVIRONMENTAL SCIENCE 2008-2009**  
**ENVIRONMENTAL STUDIES UNIT**  
**NEP 2207 - CLIMATE CHANGE**



Date: 24<sup>th</sup> August 2009

Time 09.30 a.m to 12.30 p.m.

Answer any **four (4)** questions

1. Discuss the importance and the influence of the following climate parameters in the context of weather and the climate.
  - (a) Atmospheric pressure
  - (b) Temperature
  
2. (a) Discuss the characteristics of solar radiation and terrestrial radiation.
  - (b) How do the atmospheric constituents interact with the radiation?
  
3. What processes in following fields lead to emission of Green House Gasses (GHG) into the atmosphere?
  - (a) Energy generation
  - (b) Transport
  - © Agriculture
  
4. Discuss how the outputs of Climate Change models can be used in organizing steps of adaptation to Climate Change.
  
5. Explain how the **global warming** and the **Climate Change** will have impacts on the **global economy**.