



THE OPEN UNIVERSITY OF SRI LANKA

M.Sc. In Environmental Sciences Level 03 (2014)

NEP 2217 Climate Change-

NBT 1 2016

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Date: 23<sup>rd</sup> July 2016

Time.13.00 hrs to 14.00 hrs

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Answer **Three (3)** questions

1. (i) What is meant by the Atmospheric Greenhouse Gas Enhancement?  
(ii) Name Natural Greenhouse Gas Constituents. How many of the Natural Greenhouse Gas Constituents are undergoing well-documented increase in concentration due to human activity? Name those constituents.  
(iii) What is meant by the New Greenhouse Gases?  
(iv) There is noticeable reduction in some of above gasses since 1987, why?
2. (i) What is meant by Modelling Climate Change?  
(ii) Explain the ways to find out the reliability of the Models used to make Projection of future Climate Change.
3. (i) What is Paleoclimatology?  
(ii) Explain briefly why paleoclimatic studies are important in climate change studies?
4. (i) What are scenarios and what is their purpose?  
(ii) How do we go about estimating climate change in future?
5. (i) Adaptation can reduce vulnerability, both in the short and long term. Elaborate this statement.  
(ii) Provide three examples of planned adaptation options by sectors.