

TTHE OPEN UNIVERSITY OF SRI LANKA M.Sc. In Environmental Sciences Level 08 (2017-2018) ZYPA604NEP 2217-Climate Change Final examination 2018

Date: 02nd December 2018

Time09.30.hrs to - 12.30 hrs

Answer Any Four (04) questions

- 1. (i) Describe the establishment of Intergovernmental Panel on Climate Change (IPCC) and briefly explain the organizational structure of the IPCC and its mandate,
 - (ii) The atmosphere above the earth surface is divided into various spheres. Name these spheres and boundaries showing clearly the location of these spheres and boundaries in your diagram.
 - (iii) Give the reasons for the variation of temperatures in each sphere.
 - (iv) What is the difference between the weather and climate?
 - a) Explain briefly the following: Climatic elements Climatic factors
- 2. (i) What is meant by Modeling Climate Change?
 - (ii) Explain the ways to find out the reliability of the Models used to make Projection of future Climate Change.
 - (iii) Explain the term "Emission Scenarios". How do you develop emission scenarios and explain its use in predicting global warming?
 - (iv) For the Fifth Assessment Report of the IPCC, the scientific community has defined a set of four new scenarios. What is the name given to these scenarios and how are they identified?
- 3. (i). Explain briefly how the UN Member States come to an agreement on Long-Term Cooperation Action to Address Climate Change.
 - (ii). Agreed Member States were split into three groups name these groups and explain their roles.
 - (iii) In December 1997 Conference of Parties adopted the Kyoto Protocol. Explain the main features of the Protocol.
 - (iv) Mention the mechanisms established by the protocol for giving credit to parties for reducing emissions in other countries and explain these mechanisms briefly.