



The Open University of Sri Lanka
 Faculty of Engineering Technology
 Industrial Studies Programme (Agriculture)

Final Examination- 2012/2013

AEI6137 Impact of climate change on water resources

Date : 04-08-2013
Time : 0930 – 1230 hours
Duration : Three (03) hours

Section 2: Answer any four (04) questions. All questions carry equal marks.

1. Write an essay on “Green house gas emission associated with intensive agriculture”.
2. Discuss the adaptation measures to be taken to reduce the vulnerability of water resources to climatic change.
3.
 - a. What are the indices of water stress used in Sri Lanka?
 - b. Explain how climate change will affect the components of the hydrological cycle.
4.
 - a. Briefly discuss the importance of Climate Modelling to project future climate.
 - b. Briefly explain the principles behind the General Circulation Models.
5.
 - a. What are the effects of climate change on natural resource degradation?
 - b. Discuss the contribution of developed countries in global warming.
6. Write short notes on any three (03) of the following topics.
 - a. Functions of forests
 - b. Aquifers in Sri Lanka
 - c. Ozone depletion
 - d. Climate of Sri Lanka
 - e. Climate change impact on biodiversity