



The Open University of Sri Lanka
Faculty of Engineering Technology

Industrial Studies Program

Final Examination- 2007/2008

AEI6137 Impacts of Climate Change on Water Resources



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

1. (a) Describe briefly the four monsoonal seasons in Sri Lanka
(b) Briefly discuss the recent changes in rainfall pattern in Sri Lanka and its consequences.
2. Briefly explain the impacts of climate change on Agriculture and suggest suitable adaptation measures.
3. (a) Briefly describe the characteristics and potential of major aquifers in Sri Lanka.
(b) Discuss the threats these aquifers are facing now and suggest suitable adaptation measures.
4. Discuss the climate change impacts on terrestrial biosphere and the possible adaptation measures.
5. Briefly discuss the interactive effect of climate change induced carbon dioxide (CO₂) on the following:
 - (i) Water availability to plants
 - (ii) Soil organic carbon
 - (iii) Weed, pests and diseases
6. Write short note on any three (03) of the following
 - (a) impact of climate change on forest and woodlands
 - (b) Global warming projections
 - (c) Climate change modelling
 - (d) Adaptation measures for sea level rise