

THE OPEN UNIVERSITY OF SRI LANKA
Faculty of Engineering Technology
Department of Agricultural & Plantation Engineering



Bachelor of Industrial Studies Honours (Agriculture)

Final Examination (2016/2017)
AEI6137: Impact of Climate Change on Water Resources

Date: 30th November 2017 (Thursday)

Time: 9:30 am – 12:30 pm

Index number:.....

Instructions

Section 02 – Answer any four (04) out of the six (06) questions. You may use answer books and/or sheets to answer this section.

1. Discuss the effects of climate change on hydrology and water resources.
2. Scientists are actively working to understand the past and future climate changes precisely. Discuss the international efforts and actions taken to combat climate change.
3. a) Briefly explain the surface water resources found in Sri Lanka in its importance on Agriculture.
b) Discuss the importance of Agro-wells irrigation systems in relation to crop production in Sri Lanka.
4. a) Discuss the adaptation measures to reduce the impacts of climate change on water resources.
b) Discuss the policy gaps and recommended actions in water sector.
5. Explain how agriculture contributes to the greenhouse gasses concentration in the atmosphere.
6. a) Discuss how the coastal zone management is done while protecting its resources and without causing adverse impacts on the environment.
b) Explain the importance of Integrated Water Resource Management.