

The Open University of Sri Lanka  
Faculty of Engineering Technology  
Department of Agricultural & Plantation Engineering



Study Programme	: Bachelor of Industrial Studies (Agriculture)
Name of the Examination	: Final Examination
<b>Course Code and Title</b>	<b>: AGI6237 Impact of Climate Change on Water Resources</b>
Academic Year	: 2017/18
Date	: 09 <sup>th</sup> February 2019
Time	: 0930-1230hrs
Duration	: <b>3 hours</b>

### General Instructions

1. Read all instructions carefully before answering the questions.
2. This question paper consists of **Six (06)** questions in **Two (02)** pages.
3. Answer all questions. All questions carry equal marks.
4. Answer for each question should commence from a new page.
5. Relevant charts/ codes are provided.
6. Answers should be in clear hand writing.
7. Do not use Red colour pen.

## Section II

1. Explain the role of naturally occurring and human made greenhouse gas emissions causing global warming.
2. Explain the principles behind the General Circulations Models, which are used to project future climate changes.
3. Discuss the impacts of climate change on various sectors of agriculture on global perspective.
4. Recommend the adaptation measures in water resources for climate change.
5. By observing the coastal zone of Sri Lanka, explain the possible problems related to the sea level rise and discuss suggestions to reduce the impact of it.
6. Scientific research can lead to the development of solutions to help us adapt to climate challenges and to cut our greenhouse gas emissions. Briefly explain the above statement.