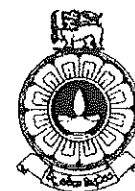


The Open University of Sri Lanka  
 Faculty of Engineering Technology  
 Department of Agricultural & Plantation Engineering



Study Programme	: Bachelor of Industrial Studies Honors
Name of the Examination	: Final Examination
Course Code and Title	: <b>AGI 6237/ AEI 6137 Impact of climate change on water resources</b>
Academic Year	: 2019/2020
Date	: 02 August 2020
Time	: 0930-1230 hrs
Duration	: <b>3 hours</b>

Registration No: .....

### Instructions

1. Contain SIX (06) essay type questions. You are required to answer **ONLY FOUR (04)** questions. You may spend about **two hours** to answer the questions in this section. Answer for each question should commence from a new page.
2. Read the questions carefully before answering.
3. **Please note that you should write your registration number in the space provided above. Do not write your name.**

### SECTION 2

1. Considering the hydrological cycle describe how will climate change affect on it.
2. Describe how do forestry influence on the atmospheric GHG balance?
3. Describe response of rice (*Oryza sativa*) to below mention different climate change effects.
  - a. Interactive effect of temperature increases and atmospheric CO<sub>2</sub> concentration.
  - b. Interactive effects of water availability and atmospheric CO<sub>2</sub> concentration
4. Describe how will climate change impact on wetland services
5. Describe adaptation techniques which can be used for increase the vulnerability of water resources against climate change in Sri Lanka.
6. Describe mitigation responses which can be taken place to reduce GHG emission from agriculture.

