

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



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| Study Programme | : Bachelor of Industrial Studies Honors |
| Name of the Examination | : Final Examination |
| Course code and Title | : AGX6284/AGI6237 Impact of Climate Change on Water |
| ResourcesAcademic year | : 2021/2022 |
| Date | : 17 February 2023 |
| Time | : 1400 -1700 hrs |
| Duration | : 3 hours |

Registration Number Index Number.....

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 and index number in the space provided above. Do not write your name.

SECTION 2

1. Briefly explain the impacts of climate change on water resources and suggest suitable adaptation measures (25 mark)
2. a. Define the term of greenhouse effect (10 mark)
b. Briefly discuss the influence of agricultural practices on global warming (15 mark)
3. Briefly discuss the ability and need of models to project future climate (25 mark)
4. Briefly describe the components of the hydrological cycle that are affected by climate change (25 mark)
5. Briefly describe the aquifers in Sri Lanka (25 mark)
6. Write short note on following. (25 mark)
 - a. Ozone depletion
 - b. Major water withdrawal types of Sri Lanka
 - c. Adaptation technologies to mitigate the climate change impacts on crop cultivation