

UNIVERSITY OF RUHUNA

BACHELOR OF SCIENCE HONOURS IN FISHERIES AND MARINE SCIENCES DEGREE

Level III Semester I Examination – August/ September 2018

OCG 3113 – Ecology of Sensitive Marine and Coastal Ecosystems, Their Pollution & Environmental Conflicts

Time: 2 hours

Answer any **Four (04)** of the Following Questions

- 1)
- a) Briefly describe the anthropogenic impacts on coastal sand dunes.
 - b) Describe the potential strategies that can be used to conserve coastal sand dunes.
- 2) Describe with example, the adaptations observed in marine invasive species established through ship ballast water.

OR

Describe technologies used for treating ship ballast water.

- 3) Discuss the impacts of spilled crude oil in a coral environment highlighting the advantages and disadvantages of available cleanup methods.
- 4) Discuss the statement, “The oceans are the largest repository or carbon sink for anthropogenic carbon dioxide on earth. This process has induced Ocean Acidification after the industrial revolution and has different impacts on marine ecosystem.”
- 5) Describe the following statements.
- a) Estuarine environments are extremely dynamic in its physical state.
 - b) Estuarine biota shows less diversity but high abundance.
- 6) Write short notes on any (03) of the following.
- a) Ecosystem engineering in mangroves
 - b) Green House Effect – Past and Present
 - c) Oil spill combat equipments
 - d) Sand dunes are natural coastal barriers
 - e) Importance of mangroves in a coastal lagoon

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