

UNIVERSITY OF RUHUNA
BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES DEGREE
Level III Semester II – December 2016/ January 2017

**OCG 3231: Coastal and marine living and non-living resource management
and relevant socio-economics**

Answer any **two (02)** questions

Time: 01 hour

01. (a) What do you mean by the 'Prisoners' Dilemma' of the resource use in ecosystems?
(10 Marks)
- (b) Discuss the different uses of coastal ecosystems pertaining to different community groups and emerging threats due to overuse and misuse of resources neglecting other parties.
(40 Marks)
02. Explain reasons for the failure of conventional market mechanism for pricing the resources of coastal and marine ecosystems.
(50 Marks)
03. (a) What are the 'Zero Liability', 'Full Liability' and Pareto 'Optimality' Explain of resource use in ecosystems.
(20 Marks)
- (b) Explain the 'Coasian Approach' to solve resource use conflicts in coastal environments.
(30 Marks)
04. (a) Discuss the difficulties to achieve the optimality of the 'Coasian Solution' to use natural resources efficiently.
(20 Marks)
- (b) Explain the use of the 'Pigovian Tax Solution' to achieve the optimality and sustainability of resource use in ecosystems.
(30 Marks)

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