

UNIVERSITY OF RUHUNA  
BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES DEGREE  
Level IV Semester I – July /August 2016

**OCG 4122 – Hydrocarbons and Mineral Resources**

Answer any **three (03)** questions

Time: 01 ½ hours

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01. a) What is the main risk in the upstream petroleum industry?  
b) List out the main steps of a hydrocarbon exploration cycle and briefly describe the activities carry out in each step.
02. a) What is a sedimentary basin?  
c) Name the main types of sedimentary basins?  
d) Briefly describe two of them using appropriate diagrams and sketches, and discuss their hydrocarbon potential
03. Write short notes on **Four (04)** of the following  
a) Hydrocarbon traps.  
b) Titanium Deposits in Sri Lanka  
c) Hydro thermal vent Deposits  
d) Gas hydrates  
e) Crude oil composition
04. a) Name the main elements and processes of a petroleum system?  
f) Briefly describe their importance of timing of occurrence of these processes and elements in-order to form oil and gas accumulations in a sedimentary basin.

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