

Uva Wellassa University of Sri Lanka
Faculty of Science and Technology
Department of Science and Technology
400 Level 1st Semester Examination – July/August 2016
MRT 472-1 Petroleum Resources

Uva Wellassa University

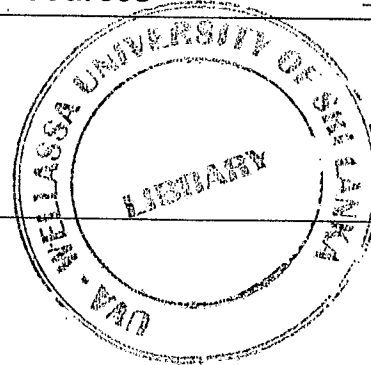
Instructions to candidates.

Number of questions: Four (04) Questions

Answer All Questions.

Duration: 01 Hour

Mark allocation: 100 marks



- 1)
- a) What is a well log? [6 marks]
- b) Briefly discuss the following. [8 x 3 = 24 marks]
- Mud logging
 - LWD
 - Wire line logging
- 2)
- a) What are the three main types of sedimentary basins? [6 marks]
- b) What is a
- source rock
 - Reservoir rock
- in the context of petroleum resources? [10 marks]
- c) How does a source rock form? [9 marks]
- 3)
- a) Compare and contrast 2D seismic surveys and 3D seismic surveys. [10 marks]
- b) What are "Multiples" in seismic surveys? [5 marks]
- c) What are the types of "noise" that you would expect to encounter during a seismic survey? Give two examples each. [5 marks]
- 4)
- a) List the four frequently used geophysical exploration methods in hydrocarbon exploration and explain why they are used in hydrocarbon exploration. [10 marks]
- b) Briefly discuss the types of seismic waves. [10 marks]
- c) What is "Two-way travel time"? [5 marks]