

Uva Wellassa University
Faculty of Science and Technology
Mineral Resources and Technology Degree Programme
1st Semester Examination – March/ April 2013



MRT 131-1 Earth Processes
Repeat

Instructions to Candidates

Total 03 Questions
Answer all questions
Total time allocated: 01 (one) hour
Draw sketch diagrams where necessary

1.
 - a. Briefly describe the process of formation of a planet.
 - b. What are the reasons for earth's differentiation? Describe the process.
 - c. Discuss the evolution of the earth's hydrosphere.
 - d. What is an unconformity? Describe the formation of an angular unconformity.
 - e. Discuss the difference between time and rock stratigraphic units.

(40 marks)

2.
 - a. Some minerals are weather resistant, while some are highly vulnerable. Explain this statement using Bowen's reaction series.
 - b. Discuss the importance of weathering in the rock cycle.
 - c. Explain why different grades of weathering exists in a given soil profile?

(30 marks)

3.
 - a. Under what conditions are ductile structure formed?
 - b. Describe different types of brittle structures.

(30 marks)