



UNIVERSITY OF RUHUNA

FACULTY OF FISHERIES AND MARINE SCIENCES & TECHNOLOGY

Academic Year 2022/2023

Bachelor of Science Honours in Marine and Freshwater Sciences Degree

Level III Semester II Examination– October/November 2024

OCG 3212: Petrology

Time: 2 hours

Answer Three (03) questions from Part B including the Question Number 01

PART B

01. Provide a detailed description of the rock types and their textures observed during the field visit to the Ussangoda area. Correlate the observed rock textures with the tectonic setting of the region.

[25 marks]

02. Describe in detail the mineralogical and textural changes that the marine sediments undergo when buried to depths of up to approximately 16.5 kilometers.

[25 marks]

03. Discuss in detail the types and textures of the rocks that you would expect to find in the Himalayan Mountain range.

[25 marks]

04. Write short notes on any five (05) of the following.

- i. Chemically precipitated rocks
- ii. Varves
- iii. Siliciclastic rocks
- iv. Fossilization and index fossils
- v. Metamorphism vs. Metasomatism
- vi. Metamorphic facies
- vii. Bowen's reaction series

[25 marks]

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