



UNIVERSITY OF RUHUNA
FACULTY OF FISHERIES AND MARINE SCIENCES & TECHNOLOGY
Academic Year 2023/2024

Bachelor of Science Honours in Marine and Freshwater Sciences Degree
Level III Semester I Examination – October /November 2024

OCG 3162 – Sedimentology

Time: 1 ½ hours

Answer only ^{Three} four (03) Questions including the Question No. 01

1.
 - i. Describe the factors affecting the weathering of rocks and formation of a soil profile (10 marks)
 - ii. What are the factors influencing the variation in soil colours, composition, and textures? (10 marks)
 - iii. What are paleosols and their importance in scientific studies. (10 marks)
 - iv. Describe the geological processes that contributed to the transport and deposition of heavy minerals from the rocks of the central highlands of Sri Lanka to the east coast. (10 marks)
2.
 - i. Compare and contrast the processes of marine transgression, marine regression, and aggradation, focusing on their causes, effects on landscapes, and associated sedimentary patterns. (15 marks)
 - ii. Describe the degree of sphericity and sorting of beach sand. (15 marks)
3.
 - i. What is a sedimentary sequence? (10 marks)
 - ii. Describe geological factors influencing the deposition of a sedimentary sequence. (10 marks)
 - iii. Describe carbonate environments and the formation of different types of carbonate rocks. (10 marks)
4. Write short notes on any five (05) of the following.
 - i. Glacial Varves.
 - ii. Economic and scientific importance of sediments.
 - iii. Biochemical rocks.
 - iv. Chemically precipitated rocks.
 - v. Classification of siliciclastic rocks based on their particle size.
 - vi. Terbidites.

(06 marks * 5 = 30 marks)

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