



UNIVERSITY OF RUHUNA

FACULTY OF FISHERIES AND MARINE SCIENCES & TECHNOLOGY

Academic Year 2022/2023

Bachelor of Science Honours in Fisheries and Marine Sciences Degree/

Bachelor of Science Honours in Marine and Freshwater Sciences Degree

Level I Semester II Examinations - April / May 2024

OCG 1242 – Introduction to Geospatial Analysis

Time: 01 hour

Part B

Answer any Two (02) of the following questions

1.

- a) What are the uses of GIS in oceanographic studies? (10 marks)
- b) Briefly describe the GIS process for real-world applications. (20 marks)

2.

- a) What are the main steps of generating a stream network by using a Digital Elevation Model (DEM)? (10 marks)
- b) Briefly describe the importance of fill operation in generating a stream network. (20 marks)

3. Write short notes on any **four (04)** of the following.

- a) Geographic Coordinate Systems
- b) Spatial analysis
- c) Queries
- d) Map Overlay
- e) Attributes

(04 x 7.5 = 30 marks)

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