



UNIVERSITY OF RUHUNA
FACULTY OF FISHERIES AND MARINE SCIENCES & TECHNOLOGY

Academic Year 2023/2024

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

OCG 3142: Remote Sensing and GNSS

Time: 1 ½ hours

Answer All questions

Part B

Use separate writing papers /a book to answer the questions in this section

1.
 - i. “One of the most common ways to classify sensor systems is based on the main mechanism they use to detect electromagnetic energy.”. briefly describe this statement with suitable examples. (25 Marks)
 - ii. Compare the principle of neutral atmospheric delay of satellite signals with the ionospheric signal delay. (25 Marks)
 - iii. Briefly describe the uses of global and regional GNSS systems for ocean remote sensing. (25 Marks)
 - iv. Evaluate the applicability of optical satellite images to monitor oil spills in the sea of Sri Lanka. (25 Marks)

2. “Resolution of a satellite sensor system is vital in terms of the precision of its measurements.” Justify this statement with suitable examples where necessary. (100 Marks)

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