

UNIVERSITY OF RUHUNA

BACHELOR OF SCIENCE HONOURS IN FISHERIES AND MARINE SCIENCES DEGREE

IV  
Level ~~VI~~ Semester I Examination – August/September 2018

OCG 4112 – Earth Processes and Morphometric Analysis

Time: 1 ½ hours

Answer any three (3) of the following Questions

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- 1) Describe the following,
  - i. Remote sensing
  - ii. Electromagnetic spectrum
  - iii. Electromagnetic energy interactions with atmosphere and the earth surface
  - iv. Advantages and limitations of remote sensing
  
- 2) Describe the following
  - i. Spectral signatures
  - ii. Image classification methods
  - iii. Accuracy assessment of classified image
  - iv. Supervised classification procedure
  
- 3) Write short notes on;
  - i. Satellite orbits and platforms
  - ii. Satellite sensors
  - iii. Resolutions in remote sensing
  - iv. Active and passive remote sensing systems
  
- 4) Describe the application of remote sensing in
  - i. Land-use land-cover mapping
  - ii. Change detection
  - iii. Urban planning
  - iv. Environmental monitoring

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