

Uva Wellassa University of Sri Lanka
Faculty of Science and Technology
Department of Science and Technology
300 level 2nd semester Examination – Sept./Oct. 2015
MRT 341-2 Remote Sensing and Geographic Information Systems



Instructions to candidates

Duration: Two (02) hours

Number of questions: Four (04) essay questions

Answer all questions

Mark allocation: 100



1. Write short notes on the following.

- a. Active Remote Sensing
- b. TIN data
- c. Sun-Synchronous satellites
- d. Spectral signature
- e. Spectral resolution

(25 mark)

2.

- a. Explain how EMR interacts with atmospheric constituents.
- b. Briefly describe methods of energy transfer from the Sun to the Earth.

(25 mark)

3.

- a. Explain the application of high resolution Remote Sensing in mineral exploration.
- b. Briefly discuss GIS functions.

(25 mark)

4.

- a. Explain the difference between attribute and spatial data. Give examples.
- b. Explain the image enhancement techniques.

(25 mark)