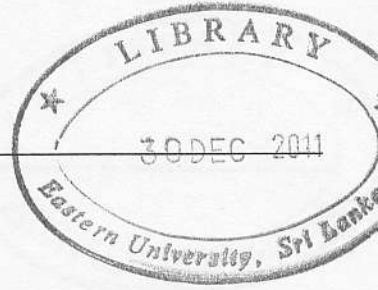


Eastern University, Sri Lanka,
Special Degree Examination in Science 2008/2009 (October/November 2011),
BT 413 / Land Use Planning and Research Management



Answer all questions
Time: 03 hrs

1. What do you understand by Land use planning and,
 - a). briefly explain the Land use Planning. (05 marks)
 - b). Discuss in brief the principles of Land evaluation frame work suggested by FAO. (15 marks)

2. I. Define;
 - a). Remote sensing (RS). (08 marks)
 - b). Geographic Information System (GIF). (12 marks)II. Explain, with appropriate examples, the different application areas of RS and GIS. (12 marks)

3. What types of errors occurs in the GIS operation and explain, why error propagation to be minimized or removed in data quality components for spatial data handling. (15 marks)

4. With the aid of appropriate illustration explain the remote sensing process and state the use of various regions of electromagnetic spectrum for satellite imaging. (15 marks)

5. Explain the different types of image enhancement techniques that are used for improving the image quality in digital image processing. (15 marks)

6. Write explanatory notes on any TWO of the followings;
 - a). Platforms and Sensor.
 - b). Application of GPS in various fields.
 - c). Need for integration Science and technology.
 - d). Vector Data. (15 marks)