



RAJARATA UNIVERSITY OF SRI LANKA FACULTY OF APPLIED SCIENCES, MIHINTALE

B.Sc. (Special) Degree in Information Technology Fourth Year Semester I Examinations – October/ November 2015

ICT 4208- GEOGRAPHIC INFORMATION SYSTEMS

Time: One and a half (1 1/2) hours

Answer ALL (3) questions.

a. "In Geometric Correction there are two similar processes that can help build the link between 1. images and real world locations". Explain this statement using suitable examples. [10 marks] b. Discuss the differences between Global Coordinate System and Universal Transverse Mercator coordinate systems [10 marks] c. Explain the Universal Transverse Mercator parameters using illustrations [05 marks] 2. a. List the data inputs for GIS and explain how it is used? [10 marks] b. Define Global Positioning System (GPS) and how it is used in GIS [05 marks] c. Explain the reasons for using data analysis and manipulation of data in GIS [10 marks] 3. a. How can data be represented with Raster and Vector models? [05 marks] b. Describe the concept of Vector and Raster [10 marks]

c. Explain the Raster and the Vector models using illustrations

[10 marks]