

RAJARATA UNIVERSITY OF SRI LANKA FACULTY OF APPLIED SCIENCES, MIHINTALE

B.Sc. (Four - Year) Degree in Applied Sciences Fourth Year Semester I Examinations – June/July 2018

COM 4203 - GEOGRAPHIC INFORMATION SYSTEMS

Time: Two (02) hours

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Answer ALL questions.	
1. a) State various types of input techniques and GIS data.	(40 marks
b) Give five (05) attributes of each of the following institutes that use GIS.	
i) Disaster Management Center	
ii) Metrological Department	
iii) Geological Survey and Mines Bureau	(40 marks)
c) Explain the term "Moving window averaging"	(20 marks
 a) Describe how geographic integration of information is carried out during in GIS data model 	nplementation of a (40 marks)
b) What is meant by (i) Projection (ii) Accuracy (iii) Scale and (iv) Resolution	(20 marks)
c) Discuss the terms spatial and attribute data with suitable examples	(40 marks)
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3. a) Compare and contrast between raster and vector data models.	(10 marks)
b) Explain with illustrations raster data storage methods.	(10 marks)
c) Give a detailed account on spatial relationships.	(05 marks)

- 4. a) Write the definition of remote sensing as given by Lillesand and Kiefer, 1994 (05 marks)
 - b) State the fields of application in remote sensing (Give <u>five (5)</u> fields) and describe one of the fields with appropriate examples. (10 marks)
 - c) Briefly explain three (03) types of remote sensing methods.

(10 marks)

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