

RAJARATA UNIVERSITY OF SRI LANKA FACULTY OF APPLIED SCIENCES

B.Sc. (Special) Degree in Information Communication Technology Fourth Year – Semester II Examination – April/May 2015

ICT 4208- GEOGRAPHIC INFORMATION SYSTEMS

Answ	ver all questions Time: One and a half	(1 ½) hours
1.	(a) Describe the techniques that is used in pattern analysis	[10 marks]
	(b) Explain how spatial correlation is done	[10 marks]
	(c) Explain the term "Moving window averaging"	[05 marks]
2.	(a) Define the terms (i) Accuracy (ii) Resolution	
	(iii) Projection and (iv) Scale	[10 marks]
	(b) Discuss how the Raster and Vector models are separately us representation	sed for data [05 marks]
	(c) Explain the four types of raster data storage methods	[10 marks]
3.	(a) Discuss details of different types of attribute data	[05 marks]
	(b) Explain with illustrations the "Tesselations" in Raster Data Str	uctures [10 marks]
	(c) Give a detailed account on "Raster Array Representations for layers"	for <u>multiple</u> [10 marks]