

RAJARATA UNIVERSITY OF SRI LANKA FACULTY OF APPLIED SCIENCES, MIHINTALE

B.Sc. (Special) Degree in Applied Biology Third Year Semester I Examinations – June/July 2018

BDC 3203 - INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS

Time: Tw	o (02) hours	
Answer ALL questions.		
1. a) State various types of input techniques and GIS data.	(40 marks)	
The state testous types of hiput teeninques and G15 data.	(40 marks)	
b) Give <u>five (05)</u> attributes of each of the following institutes that use GIS.		
i) Disaster Management Center	8	
ii) Metrological Department		
iii) Geological Survey and Mines Bureau	(40 marks)	
c) Explain the term "Moving window averaging"	(20 marks)	
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2 a) Describe how accoranhic integration of information is comised and during in the		
2. a) Describe how geographic integration of information is carried out during impler GIS data model	(40 marks)	
b) What is meant by (i) Projection (ii) Accuracy (iii) Scale and (iv) Resolution	(20 marks)	
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c) Discuss the terms spatial and attribute data with suitable examples	(40 marks)	
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) V	Write the definition	of remote sensin	g as given by	Lillesand and Kiefer, 1994	(05 marks)
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- 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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