15CV563

Fifth Semester B.E. Degree Examination, June/July 2019

Remote Sensing and GIS

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.			
		Module-1	(00 7 7 1)
1	a.	Define Remote Benshing. State advantages and	(08 Marks)
	b.	Explain in detail about energy interaction with atmosphere and earth surface.	(08 Marks)
		OR	(00 Manles)
2	a.	State and explain the elements of visual image interpretation.	(08 Marks)
	b.	With a neat sketch explain electromagnetic spectrum.	(08 Marks)
Minor		Module-2	(10 Marks)
3	a.	What is resolution of a sensor? Describe all sensor resolutions.	(16 Marks)
	b.	Write notes on: SPOT, IKONOS and IRS.	(00 Marks)
		AOD.	
		OR	(10 Marks)
4	a.	Write notes on: Systematic correction method and image filtering. Explain the different types of platforms used in Remote Sensing.	(06 Marks)
	b.	Explain the different types of platforms used in Remote Sensing.	(001:2012)
		Module-3	
5	0	Define GIS. Describe the key components of GIS.	(08 Marks)
5	a. b.	Write a note on: Classification of maps and map scales.	(08 Marks)
	υ.	Write a note on. Classification of maps and map seases.	
		OR	
6	a.	What is a map projection? Explain the different types of map projections	with their
U	a.	characteristics	(08 Marks)
	b.	What do you understand by spatial data and attribute data? How are they integrat	ed to make
	0.	a GIS?	(08 Marks)
		Module-4	(00 Ml-a)
7	a.	What are Raster and Vector? Write the basic difference between them.	(08 Marks)
	b.	Explain run length encoding and chain encoding.	(08 Marks)
		OD	
		OR	ased vector
8	a.		(08 Marks)
		model.	(08 Marks)
	b.	Explain spaghetti model and vertex dictionary model.	(00 marks)
Module-5			
0	_	How remote sensing and GIS is used in change detection study?	(08 Marks)
9	a.	Explain the application of remote sensing in water resource management.	(08 Marks)
	b.	Explain the application of femote sensing in water resource management.	

- () ()
 - OR
- Explain the application of RS and GIS in natural resource management. (08 Marks) 10 Explain the application of RS and GIS in urban planning and traffic management. (08 Marks)

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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.