CBCS Scheme

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15CV563

Fifth Semester B.E. Degree Examination, Dec.2017/Jan.2018 Remote Sensing & GIS

Time: 3 hrs. Max. Marks: 80

Note: Answer FIVE full questions, choosing one full question from each module.

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		Module-1	
1	a.	Define Remote Sensing, with a neat sketch and explain the process	of remote sensing
		system.	(08 Marks)
	b.	With a neat sketch and explain the electromagnetic spectrum.	(08 Marks)
		OR	
2	а	Explain the energy interactions in the atmosphere.	(08 Marks)
_	b.	Explain the elements of visual interpretation techniques.	(08 Marks)
		Module-2	
3	a.	Explain the different types of platforms used in remote sensing.	(06 Marks)
	b.	What is resolution of a sensor? Describe all sensor resolutions.	(10 Marks)

4 a. Explain digital image processing. (06 Marks) b. Write a note on IRS, Landsat, IKonos and Cartosat. (10 Marks)

5 a. Define GIS. Describe the key components of GIS. b. Explain the different steps involved in GIS operations. OR (08 Marks)

6 a. What is a map projections? Explain the types of map projections.
b. Write a note on Geospatial data and projected coordinate system. (08 Marks)

8 a. Explain the different raster data structures.
b. What is raster data model? Explain the different types of raster data used in GIS (08 Marks)

9 a. What is land use land cover? Explain the applications of remote sensing in land use land cover analysis.

(08 Marks)

b. How remote sensing and GIS are used in change detection study?

(08 Marks)

OR

10 a. Explain the applications of RS and GIS in natural resource management.

b. Explain the following: Urban palnning, Traffic management

(08 Marks)

2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8=50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.