**R10** 

Code No: **R41014** 

Set No. 1

## IV B.Tech I Semester Supplementary Examinations, November - 2016 REMOTE SENSING AND GIS APPLICATIONS

(Civil Engineering)

		(Civii Engineering)		
Time: 3 hours Max			. Marks: 75	
		Answer any FIVE Questions		
		All Questions carry equal marks  *****		
1	a) b)	Write short notes on Rayleigh scattering  Define remote sensing and briefly discuss the essential components of remote	[7]	
	-,	sensing	[8]	
2	a)	Differentiate between geo stationary and sun synchronous satellites?	[8]	
	b)	What are the advantages and disadvantages of using Remote sensed data?	[7]	
3	a)	Briefly explain the process of filtering with an example.	[8]	
	b)	Differentiate between supervised and unsupervised classification.	[7]	
4	a)	Explain the merits and demerits between digital cartography and geographical	FO3	
	b)	information. What are the different types of coordinate systems used in GIS?	[8] [7]	
5	a)	Explain relational database management system with an example.	[8]	
	b)	Differentiate between raster and vector data models.	[7]	
6	a)	Briefly explain the process of reclassification with an example	[7]	
	b)	Explain vector overlay with suitable examples.	[8]	
7	a)			
	b)	detail.  Briefly explain the importance of Land Use Land Cover changes in civil	[7]	
	U)	engineering applications.	[8]	
8	a)	Explain how remote sensing and GIS techniques are used in mapping of flood-prone areas.	[7]	
	b)	Briefly explain how GIS and RS can be helpful in estimating the loss of	[']	
		reservoir capacity due to sedimentation.	[8]	

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