

Code No: **RT41015**

R13

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018 REMOTE SENSING AND GIS APPLICATIONS

(Civil Engineering)

Time: 3 hours

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

PART-A (22 Marks)			
1.	a)	What do you understand by remote sensing?	[3]
	b)	What are image processing techniques?	[4]
	c)	Comparison between spatial and non spatial data.	[4]
	d)	What is data compression?	[3]
	e)	Write short notes on applications of RS & GIS drainage morphometry.	[4]
	f)	Write short notes on applications of RS & GIS in flood inundation	[4]
		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a)	Explain briefly about the process of Remote Sensing with a neat supporting diagram.	[8]
	b)	Discuss the following	
		(i) Band interleaved by pixel	507
		(ii) Band interleaved by line	[8]
3.	a)	Explain the term 'visual image interpretation'. Discuss the various image	
٥.	a)	interpretation elements.	[8]
	b)	Explain the following Image Enhancement Techniques	[0]
	-,	(i) Image reduction & magnification	
		(ii) Contrast enhancement	[8]
4.		Explain in detail about the map projections in GIS.	[16]
5.	a)	Describe vector overlay and raster overlay with examples.	[8]
	b)	What is raster overlay? Explain with suitable examples.	[8]
6.	a)	Explain the use of RS GIS techniques in Forestry applications.	[8]
	b)	Discuss the geomorphological applications of GIS.	[8]
7.		Discuss the methodology with flowshort DS and GIS application to around water	
1.		Discuss the methodology with flowchart RS and GIS application to ground water prospects studies.	[16]
		prospects studies.	[10]