## IV B.Tech I Semester Supplementary Examinations, March – 2017 REMOTE SENSING AND GIS APPLICATIONS

(Civil Engineering)

Time: 3 hours Max. Marks: 70

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)	Discuss the salient features of IRS $-1$ C.	[4]
	b)	Explain False colour composite.	[4]
	c)	What is Normalization?	[3]
	d)	What are conditional expressions?	[4]
	e)	List out various applications of remote sensing and GIS in agriculture sector.	[3]
	f)	Write short notes on applications of remote sensing in Artificial ground recharge.	[4]
		$\underline{PART-B} (3x16 = 48 Marks)$	
2.	a) b)	Explain in detail about the concept of resolution and discuss in detail spatial and radiometric resolutions.  Write short notes on	[8]
	U)	i) Geo Synchronous satellites ii) Passive Remote Sensing	[8]
3.		Describe the importance of image classification in Remote Sensing. Explain briefly the categories of image classifications used and distinguished among each other.	[16]
4.		Discuss the data structures used in GIS.	[16]
5.	a)	Discuss the errors in GIS.	[8]
	b)	Explain overlay using decision table in GIS.	[8]
6.		How Remote Sensing and GIS is useful in Land resources management. Explain with suitable examples.	[16]
7.	a)	Discuss the role of remote sensing and GIS in Rainwater harvesting.	[8]
	b)	Discuss the role of remote sensing and GIS in Rainfall – Runoff modeling.	[8]

1 of 1