Name:

## Reg.No. EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, JUNE 2009 CE.04.804 (F) - Remote Sensing and GIS (2004 Admission) :: Three hours

				(2004 Admission)	A A A A CT TO CO CO CO TO CO
Time:		Th	ree hours Maximum:	100 marks	
				(Answer all questions)	a T
					20
	1	а	Dis	tinguish between Passive and Active remote sensing.	
		b.	Dis	cuss on significance of atmospheric windows in remote sensing.	
			Giv	e a brief description on the different sensors used in satellites.	
		d.	Distinguish between SLAR and SAR.		
e. What are the benefits of GIS over conventional methods?					, III
				plain the architecture of GIS.	<u> </u>
60	88	f.			
		g.		nat is filtering?	=40 marks)
		h.	WI	nat is supervised and unsupervised classification? (8x5)	10 marko)
	_		**	n: G 1 G 1 d 1 d 1 d 1 d 1 d 1 d 1 d 1 d 1	ith suitable
	2.	a.	1)	Discuss on Spectral Signature and its role in identifying objects, w	(8 marks)
				diagram.	(7 marks)
			ii)	Explain the principle of working of Remote Sensing.	( i mai ks)
		9	261	OR	
		b.	i)	With a suitable diagram, explain Electromagnetic spectrum and its	(O montro)
			020000	characteristics used in remote sensing.	(8 marks)
			ii)	Explain on the different types of interactions of EMR with atmosp	onere.
					(7 marks)
	3.	a.	i)	Give a detailed description on the classification of satellite.	(8 marks)
			ii)	Write a short note on the Indian Remote Sensing programme.	(7 marks)
	8			OR	21
		b.	i)	What is a role of a scanner in remote sensing and describe the diff	terent
				types of scanners used in remote sensing.	(8 marks)
			ii)	Discuss the importance of Thermal infrared in remote sensing.	(7 marks)
	4.	. a.	i)	What is a data model? Enumerate different types of GIS data.	(8 marks)
			ii)	Write short notes on (i) Overlaying (ii) Buffering in GIS.	(7 marks)
			051	OR	
		b	. i)	What is map projection and explain the different types of map pr	ojections
			20 XX	with their characteristics.	(8 marks)
			ii)	Explain on the different methods of Data Input in GIS.	(7 marks)
	5	. a	i)	[	tion,
			- 2	quoting suitable examples for each.	(8 marks)
			ii	Give a brief description on application of remote sensing in urba	an planning.
					(7 marks)
				OR	50 D
		h	. i)	the second secon	(8 marks)
		a.	,	) Give a brief description on application of remote sensing and GI	10000
				watershed management.	(7 marks)
				water street manuscriteria.	N