Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E.- SEMESTER-I • EXAMINATION – WINTER 2013

	U	Code: 711206N Date: 06/01/20	14
	Subject Name: Remote Sensing and Its Applications Time: 10.30 To 13.00 Total Marks:		
Inst	2.	Ons: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Discuss the application of remote sensing in the field of Water resources	07
	(b)	management List out various softwares used for remote sensing and explain any one with its features.	07
Q.2	(a)	Describe the advantages and disadvantages of Remote sensing	07
	(b)	Write a short note on active and passive remote sensing systems OR	07
	(b)	Describe the integration of GIS with Remote sensing with suitable example	07
Q.3	(a)	Describe the supervised and unsupervised classification phenomena.	07
	(b)	Write a difference between across track and along track scanning system. OR	07
Q.3	(a) (b)	Explain the process of visual image interpretation. Discuss the role of GPS as allied tool in Remote sensing applications with suitable example.	07 07
Q.4	(a) (b)	Discuss the importance of ground truth verification with suitable example. Explain the radiometric resolution and spectral resolution	07 07
		OR	
Q.4	(a) (b)	Explain the temporal resolution and spatial resolution. Explain true color composite and false color composite	07 07
Q.5	(a)	What does sensors and platforms in remote sensing mean? Explain various	07
	(b)	types of sensors and platforms used in remote sensing What is the phenomenon of filtering in image enhancement? Enlist various benefits of high pass and low pass filter.	07
0.5	(a)	OR	05
Q.5	(a)	Describe the various enhancements for digital image processing in detail.	07
	(b)	Explain the Side Looking Air Borne Radar system (SLAR) and its working in detail	07
