Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER – I • EXAMINATION – WINTER • 2014

WI, E SEWIESTER – I \cdot EXAMINATION – WINTER \cdot 2014			
Subject code: 2713304 Date: 12-01-2015			
Subject Name: Remote Sensing and Its Application			
Time: 02:30 pm - 05:00 pm Total Marks: 70			
Instructions: 1. Attempt all questions.			
	2.		
Q.1	(a)	Describe the role of remote sensing in Water Resources Engineering with suitable example.	07
	(b)	Signify the role of spectral reflectance curves in remote sensing .Support your answer with spectral reflectance curves of Soil and vegetation.	07
Q.2	(a) (b)	Enlist and explain the advantages and limitations of remote sensing applications. Enlist and explain various components of Remote sensing. OR	07 07
	(b)	Explain the following: (1) Spectral Resolution (3) ISRO	07
Q.3	(a)	What does image interpretation mean? Explain various elements of image interpretation.	07
	(b)	Differentiate (1) Active and Passive Remote Sensing (2) Airborne and Space borne Platforms of remote sensing. OR	07
Q.3	(a)	Write short notes on:	07
C.	()	(1) Ground Truth (2) Map Digitizer	
	(b)	Enlist various softwares used for remote sensing applications. Explain any one in detail with its features and capabilities.	07
Q.4	(a)	Enlist various applications of remote sensing in Hydrology and explain one in detail.	07
	(b)	How do you see the role of GIS in Civil Engineering applications of remote sensing	07
.		OR	~ -
Q.4	(a)	Enlist various applications of remote sensing in Construction Management and explain one in detail.	07
	(b)	How do you see the role of GPS in Civil engineering applications of remote sensing	07
Q.5	(a)	Write Short note on :	07
	(b)	(1) Multi temporal images (2) Image Enhancement Describe Supervised and Unsupervised classification and its applications in	07
		remote sensing.	
Q.5	(a)	Write short note on:	07
		(1) EMR Spectrum (2) True and False Colour Composite	<u> </u>
	(b)	Write short note on: (2) Spectral Signature (2) Filtering	07
