Seat No.: _____

Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER – III (New)– EXAMINATION – WINTER-2019

Subject Code: 3730507 Date: 16-11-2019			
Subject Name: Remote Sensing			
	Time: 02:30 PM TO 05:00 PM Total Marks: 70		
Instructions: 1. Attempt all questions.			
 Attempt an questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 			
Q.1	(a)	Explain the effect of absorption and scattering with respect to Remote Sensing in detail.	07
	(b)	Explain opt-mechanical electro optical sensor and their working in brief.	07
Q.2	(a) (b)	Explain energy interaction with surface features in detail Explain types and characteristics of different platforms: LANDSAT,SPOT, IRS OR	07 07
	(b)	Explain multispectral scanners in brief.	07
Q.3	(a) (b)	Explain color IR film and their characteristics. Write short note on photographic products OR	07 07
Q.3	(a) (b)	Explain altimeter LiDAR remote sensing Explain atmospheric influence on spectral response pattern in brief.	07 07
Q.4	(a) (b)	Explain real aperture and synthetic aperture of RADAR Explain principal of spectroscopy, further explain imaging spectroscopy OR	07 07
Q.4	(a) (b)	Write short note on thermal sensors. Explain radiometric and spectral resolution in detail.	07 07
Q.5	(a)	Explain how image enhancement and image classification techniques uses in remote sensing.	07
	(b)	Explain Aerial Laser Terrain Mapping. OR	07
Q.5	(a) (b)	Explain derivative spectrometry in brief.	07 07
	(b)	Compare multispectral scanners and thermal scanners in detail.	07