Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME SEMESTER – I (NEW) EXAMINATION – SUMMER 2017

Subject Code :2713304 **Date: 11/05/2017**

Subject Name: Remote sensing and its Application

Time: 02:30 PM To 05:00 PM **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Define Remote sensing. Describe the working principle of remote sensing with neat sketch.	**07**
	(b)	Discuss about spectral reflectance curve with neat sketch.	**07**
Q.2	**(a)**	Enlist and explain various applications of remote sensing in water resources management.	**07**
	(b)	Describe EMR Spectrum with sketch and also its applicability in remote sensing	**07**
		OR	
	(b)	Expalin the application of remote sensing in hydrology and its allied phenomena .	**07**
Q.3	**(a)**	How does remote sensing work with GIS ? Support the answer with suitable example	**07**
	(b)	Define GIS and discuss about various components of GIS .	**07**
		OR	
Q.3	**(a)**	Describe the aspects of ideal remote sensing.	**07**
	(b)	Explain about integrated use of GPS,GIS and remote sensing with suitable example.	**07**
Q.4	**(a)**	Explain active and passive remote sensing in detail	**07**
	(b)	Describe the image interpretation process in detail.	**07**
		OR	
Q.4	**(a)**	Enlist and explain various softwares used for remote sensing.	**07**
	(b)	Write short note on : (1)NRSA (2) True and false colour composite	**07**
Q.5	**(a)**	Describe the role of supervised classification in remote sensing with suitable example.	**07**
	(b)	Describe the terms spatial resolution and temporal resolution in detail.	**07**
Q.5	**(a)**	Describe about attribute data and spatial data in detail.	**07**
	(b)	Write short note on : (1)Along track scanner(2) ISRO	**07**

****