Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016

Subject Code: 2721712 **Date: 27/05/2016**

Subject Name: Environmental Monitoring

Time:10:30 am to 01:00 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)**	Explain the need of Environmental Monitoring.	**07**
	(b)	Discuss the different types of Environmental Monitoring in detail.	**07**
Q.2	**(a)**	Discuss the spatial and temporal properties of Environmental Monitoring.	**07**
	(b)	Explain how to select sampling locations before starting monitoring.	**07**
		OR	
	(b)	Discuss the different types of sampling methods for Environmental Monitoring.	**07**
Q.3	**(a)**	Give general steps involved to carry out water quality monitoring with flow diagram	**07**
	(b)	Describe preservation techniques of water sample.	**07**
		OR	
Q.3	**(a)**	What are the parameters and frequency of monitoring in ground water?	**07**
	(b)	Describe analysis methods of water quality monitoring.	**07**
Q.4	**(a)**	Discuss numbers and distribution of air quality monitoring locations as per guidelines.	**07**
	(b)	What are the objectives of NAAQP in India.	**07**
		OR	
Q.4	**(a)**	Discuss the components of GIS in detail	**07**
	(b)	Explain procedure for NO_x monitoring in ambient air.	**07**
Q.5	**(a)**	List out different beneficial and harmful soil microbial process	**07**
	(b)	Discuss various applications of remote sensing in environmental health and safety.	**07**
		OR	
Q.5	**(a)**	Discuss steps to design and execute the ground water sampling program.	**07**
	(b)	What are the major properties of the contaminant that influences its transport and fate behavior?	**07**

****