Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII(NEW) • EXAMINATION - WINTER 2016

Subject Code:2171305	Date:23/11/2016
Subject Name Environmental Monitrains and Statistics	

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Time: 10.30 AM to 1.00 PM	Total Marks: 70
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Instructions:

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

Q.1	(a)	Why environmental monitoring is needed? Elaborate types of environmental monitoring.	07
	(b)	Write a short note on interpolation and spatial Distribution.	07
Q.2	(a)	Elaborate chemical characteristics of water and its monitoring techniques.	07
	(b)	Describe sample variables and its types with suitable examples. OR	07
	(b)	Define: correlation, covariance and standard deviation.	07
Q.3	(a)	Elucidate environmentally transmitted pathogens and its effects.	07
	(b)	Explain ground water monitoring by describing objectives, location of monitor wells, well construction design.	07
		OR	
Q.3	(a)	Explicate water sampling techniques in detail.	07
	(b)	Elaborate types of air monitoring and its standards.	07
Q.4	(a)	Discuss the operation of an electrostatic precipitator.	07
	(b)	Write different processes that lead to acid mine drainage.	07
		OR	
Q.4	(a)	Describe sample processing and storage of microbial contaminant.	07
	(b)	Explicate ground water monitoring by describing objectives, location of monitor wells, well construction design.	07
Q.5	(a)	Write about chemical contaminants and it fate and migration.	07
	(b)	What is an environmental characteristic? Describe its types.	07
		OR	
Q.5	(a)	Describe electrometric and spectroscopic method.	07
	(b)	What is normal probability function? Explain by giving suitable examples.	07