Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – I • EXAMINATION – WINTER • 2013

Subject code: 711904N **Date: 30-12-2013**

Subject Name: Transportation & Environment

Time: 10.30 am – 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)**	Discuss various modes of transportation in detail.	**07**
	(b)	Describe sources of urban and non-urban traffic noise.	**07**
Q.2	**(a)**	What are the effects of noise? Explain in detail.	**07**
	(b)	Explain the control of noise pollution at various levels.	**07**
		OR	
	(b)	Explain the ambient noise standard and give the standards for acceptable noise levels for residential area as per IS code.	**07**
Q.3	**(a)**	Which are different sources of air pollution? Explain in detail.	**07**
	(b)	What is air pollution? What is the unit measurement of air and explain the Indian ambient air quality standards.	**07**
		OR	
Q.3	**(a)**	Explain the classification of air pollutants in detail.	**07**
	(b)	Discuss effects of air pollution on human health and plants.	**07**
Q.4	**(a)**	Explain in brief how automobile pollution can be controlled.	**07**
	(b)	Discuss measurement and analysis of vehicular emissions in brief.	**07**
		OR	
Q.4	**(a)**	Explain the vehicular emission parameters in detail.	**07**
	(b)	What are the common air pollutants, their sources and effects on human?	**07**
Q.5	**(a)**	What are the EIA requirements of highway projects?	**07**
	(b)	Discuss different measures which can be used to control air pollution.	**07**
		OR	
Q.5	**(a)**	Write a short note on EIA practices in India.	**07**
	(b)	Discuss the MOEF guidelines for highway projects.	**07**

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