Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER–I(New course)• EXAMINATION – WINTER- 2015

Subject Code: 2711305 **Date: 04/01/2016**

Subject Name: Environment Impact Assessment of Transportation Project

Time:2:30 pm to 5:00 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)**	Describe the purposes of Environment Impact Assessment (EIA) of transportation projects.	**07**
	(b)	Discuss the key features of National Environmental Policy Act.	**07**
Q.2	**(a)**	Explain the 'Screening' in the EIA process.	**07**
	(b)	How would you plan the EIA process of any rural road construction?	**07**
		OR	
	(b)	Discuss the 'Scoping' in the EIA process.	**07**
Q.3	**(a)**	Explain with example matrix method for impact identification.	**07**
	(b)	Prepare check list for EIA of any railway project.	**07**
		OR	
Q.3	**(a)**	Explain with example network method for impact identification.	**07**
	(b)	Prepare check list for EIA of any sea port project.	**07**
Q.4	**(a)**	Which factors influencing the propagation of airborne vehicular pollutants? What is the relation between vehicle speed and emissions?	**07**
	(b)	Describe the impact prediction approaches of air pollution caused by transportation projects.	**07**
		OR	
Q.4	**(a)**	Briefly discuss about the various sources and effects of air pollutants.	**07**
	(b)	Describe the mitigation measures for the noise pollution caused by transportation projects.	**07**
Q.5	**(a)**	Discuss about prediction and assessment methods for the noise impacts caused by transportation projects.	**07**
	(b)	Discuss about the significance of public participation in environmental decision making process.	**07**
		OR	
Q.5	**(a)**	Describe the different socio-economic impacts of the transportation projects.	**07**
	(b)	Explain about development of decision matrix for evaluation of alternatives in EIA process.	**07**

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