Seat No.: _____ **Enrolment No._____**

GUJARAT TECHNOLOGICAL UNIVERSITY

ME Semester –III Examination Dec. - 2011

Subject code: 731902 **Date: 08/12/2011**

Subject Name: Transportation Economics and Project Evaluation

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)**	What is the significance and purpose of the study of transport economics?	**07**
	(b)	Discuss the basic principles of of economic evaluation of transportation projects.	**07**
Q.2	**(a)**	What is consumer's surplus? How it may affect transportation cost?	**07**
	(b)	Mention the various costs and benefits that may be considered while evaluating a transport project.	**07**
		OR	
	(b)	What is meant by internal rate of return? How is it different from other methods of economic evaluation?	**07**
Q.3	**(a)**	Present a comparative analysis of various methods of economic evaluation.	**07**
	(b)	Differentiate between road user cost and non user cost.	**07**
		OR	
Q.3	**(a)**	What is maintenance cost? How is it related to accident cost?	**07**
	(b)	Discuss about various social costs and benefits from transportation projects.	**07**
Q.4	**(a)**	What is capital cost? How interest during construction may affect capital cost?	**07**
	(b)	What is congestion cost? How traffic restraint may affect road pricing?	**07**
		OR	
Q.4	**(a)**	What are the economic principles behind road pricing?	**07**
	(b)	Mention the requirements of a good road pricing system.	**07**
Q.5	**(a)**	What may be the possible approaches for monetary evaluation of passenger's travel time?	**07**
	(b)	How travel time savings affect transportation costs and benefits?	**07**
		OR	
Q.5	**(a)**	How transportation projects may be related to welfare economics?	**07**
	(b)	Discuss the limitations of benefit cost ratio method of economic evaluation.	**07**

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