Seat No.: ________ Enrolment No.______________

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject code: 731902 **Date: 28-11-2013**

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 purpose of carrying transportation economics? What are the major considerations to be taken care in it? **07**

(b) What are the major transportation project costs? How they are measured? **07**

Q.2 **(a)** What are the various economic costs and benefits that are to be considered while evaluating a transport project? **07**

(b) Evaluate the factors affecting road user cost. **07**

OR

(b) Differentiate between financial and economic aspect of transportation project. **07**

Q.3 **(a)** What is transportation decision making? What are various costs related analysis which are considered in decision making? **07**

(b) **07**

	Option 1	Option 2	Option 3
Benefits	8 crore	10 crore	6 crore
Costs	10 crore	8 crore	4.5 crore
B/C ratio	0.8	1.25	1.33
Net benefits	-2 crore	2 crore	1.5 crore

Considering the above data of B/C which is the best option in different condition and why?

OR

Q.3 **(a)** A transportation company is offered an investment proposal for a project invest Rs.1 crore to get a return of Rs. 35 lacs for the first two years and Rs. 10 lacs for the next 5 years. The rate of interest is 12% per year. Find out NPV and state whether the investment is profitable or not. **07**

(b) What is internal rate of return? Compare it with other methods of economic evaluation? **07**

Q.4 **(a)** What are the factors considered in technical feasibilities of a project? **07**

(b) What is importance of techno economic feasibility study of a project? **07**

OR

Q.4 **(a)** What are various methods of economic analysis? What are the basics of these methods? **07**

(b) What are the social costs and benefits of a transport project? **07**

Q.5 Write Notes on any 2:- **14**

1. Accident cost and congestion cost.
2. Various maintenance costs of transport project.
3. Ranking of alternative projects.
4. Transport economics in developing countries.

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