

GUJARAT TECHNOLOGICAL UNIVERSITY**ME - SEMESTER– II (Old course)• REMEDIAL EXAMINATION – SUMMER 2015****Subject Code: 1721307****Date:15/05/2015****Subject Name: Economics & Evaluation of Transportation Projects****Time: 02:30 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) What is National Income? Discuss methods to estimate National Income. **07**
 (b) What is road pricing? Discuss method and need of Road Pricing. **07**
- Q.2** (a) Explain principles of project analysis for appraisal of it. **07**
 (b) Discuss steps of economic analysis of transportation projects. **07**
- OR**
- (b) Explain laws of demand and demand curves. **07**
- Q.3** (a) Discuss about ordinal and cardinal analysis carried out for transportation demand. **07**
 (b) Discuss about factors affecting roaduser cost. **07**
- OR**
- Q.3** (a) Discuss about factors affecting transport cost analysis for mass transit system. **07**
 (b) Explain: (i) Utility analysis **04**
 (ii) Elasticity of supply. **03**
- Q.4** (a) Explain Net Present Value method of Economic Analysis with advantages and limitations. **07**
 (b) Explain Internal Rate of Return method of Economic Analysis with advantages and limitations. **07**
- OR**
- Q.4** (a) Explain Benefit by Cost ratio method of Economic Analysis with advantages and limitations. **07**
 (b) Explain Sensitivity analysis for economic evaluation of transportation projects. **07**
- Q.5** (a) Explain: (i) Sources of revenue. **04**
 (ii) Toll tax. **03**
 (b) Discuss about benefits of transportation projects. **07**
- OR**
- Q.5** (a) Explain: (i) Break even point. **04**
 (ii) Marginal cost pricing. **03**
 (b) Explain national policy for transportation projects. Also, discuss about roll of fares and subsidy in inputs of transportation projects. **07**
