

**GUJARAT TECHNOLOGICAL UNIVERSITY****ME - SEMESTER– II (Old course)• REMEDIAL EXAMINATION – SUMMER 2015****Subject Code: 1721207****Date:16/05/2015****Subject Name: Infrastructure Engineering and Management****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) Enlist different Probability distribution and Explain any one in detail. 07  
 (b) Explain Initial and Environmental Studies required for infrastructure project. 07
- Q.2 (a) Enlist the salient features of any infrastructure project related to the Transportation and explain its significance. 07  
 (b) Enlist different models of private sector participation in the infrastructure project and explain BOT. 07
- OR
- (b) What is the importance of data in Life cycle analysis? 07
- Q.3 (a) Explain the challenges and risk involved in hydro power station project, Ukai at Gujarat. 07  
 (b) Explain various feasibility skills. 07
- OR
- Q.3 (a) Explain performance evaluation. 07  
 (b) Write short note on: Role of infrastructure in development of country. 07
- Q.4 (a) Explain determination of project cost and project revenues. 07  
 (b) Explain the sectors covered under infrastructure, highlighting its importance. 07
- OR
- Q.4 (a) Explain Infrastructure Management System and its features. 07  
 (b) Discuss on maintenance strategies of any civil engineering project. 07
- Q.5 (a) Give the importance of estimating life of infrastructure project. 07  
 (b) Explain (i) Median (ii) Frequency distribution. 07
- OR
- Q.5 (a) Explain planning process of Infrastructure of Industrial Building. 07  
 (b) Explain economic analysis of Infrastructure Project. Also Discuss how it will be useful in calculating user charges. 07

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