

GUJARAT TECHNOLOGICAL UNIVERSITY**M.E Sem-II Examination July 2010****Subject code: 721207****Subject Name: Infrastructure Engineering and Management****Date: 09 / 07 /2010****Time: 11.00am – 1.30pm****Total Marks: 60****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain the sectors covered under infrastructure, highlighting its importance . **06**
(b) What is Life Cycle Analysis ? What are the goals and purpose of Life Cycle Analysis ? **06**

- Q.2** (a) Explain Environmental, financial , technological and construction risk involved in infrastructure projects . **06**
(b) Enlist different Probability distribution and Explain any one in detail . **06**

OR

- (b) Explain infrastructure Management information system and its key features **06**

- Q.3** (a) Explain need analysis of any one type of infrastructure project **06**
(b) The data relating to the infrastructure project are given as follows **06**
34,33,31,29,45,61,22,29,36,47,17,81,19,42,38,35
Find out mean, median, Variance, Standard deviation , and Coefficient of variance of the above data

OR

- Q.3** (a) Explain Initial and Environmental Studies required for infrastructure project **06**
(b) Enlist different models of private sector participation in the infrastructure project and explain BOT **06**

- Q.4** (a) Enlist the salient features of any infrastructure project related to the transportation and explain its significance **06**
(b) Explain the different rehabilitation strategies adopted **06**

OR

- Q.4** (a) Explain significance of data for infrastructure project and information system . **06**
(b) Explain infrastructure scenario of India .and explain the fields in which major infrastructure development needed **06**

- Q.5** (a) What is the importance of data in Life cycle analysis **06**
(b) Explain performance evaluation . **06**

OR

- Q.5** (a) Explain determination of project cost and project revenues **06**
(b) Explain importance characteristics of infrastructure projects **06**
