

GUJARAT TECHNOLOGICAL UNIVERSITY**M.E Sem-II Remedial Examination December 2010****Subject code: 721207****Subject Name: Infrastructure Engineering and management****Date: 23 /12 /2010****Time: 02.30 pm – 05.00 pm****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 Infrastructure sectors in brief **06**
(b) Enlist different types of risks and Explain Political and economical risk **06**
- Q.2** (a) Enlist different models of private sector participation and explain any one **06**
(b) Explain life cycle analysis **06**
- OR**
- (b) Explain role of infrastructure on nations development **06**
- Q.3** (a) Explain role of Government in infrastructure in infrastructure project **06**
(b) Discuss case study of any transportation project **06**
- OR**
- Q.3** (a) Explain Binomial probability distribution **06**
(b) Following are the data of a sample survey calculate (i) Mean (ii) Median(iii) **06**
Variance (iv) standard deviation
Data :: 7.12, 8.41, 9.72, 11.02, 6.04, 7.89, 12.32, 10.12, 11.04, 7.09, 8.05, 7.06,
8.46, 9.15, 7.08
- Q.4** (a) Explain need of management information system in infrastructure project **06**
(b) Explain performance Evaluation **06**
- OR**
- Q.4** (a) Explain Rehabilitation **06**
(b) Explain data need of Infrastructure project **06**
- Q.5** (a) Explain Infrastructure need assessment in case of Transportation project **06**
(b) Explain different mitigation strategies for Infrastructure project **06**
- OR**
- Q.5** (a) Explain (i) Initial studies (ii) Technical and Engineering studies **06**
(b) Explain Financial aspect of Infrastructure project **06**
