

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. Sem. – IInd - Examination – June/July- 2011****Subject code: 1721207****Subject Name: Infrastructure Engineering and Management****Date: 01/07/2011****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) Give details of India's Infrastructure Explain the role of Infrastructure in India's development . 07
- (b) Which are the different types of risk involved In the Infrastructure engineering projects ? explain the Environmental risk and political risk in detail 07
- Q.2** (a) Explain BOT and BOLT way of carrying out of Infrastructure project by public private partnership 07
- (b) Which sort of works are carried out under Infrastructure ? Explain Transportation and Power field as Infrastructure project 07
- OR**
- (b) Explain different stages of life cycle analysis 07
- Q.3** (a) Explain the importance of MIS for Infrastructure project . Describe the different features of MIS practiced for Infrastructure project 07
- (b) Describe followings in respect of the data analysis (i) Mean (ii) Median (iii) Standard deviation (iv) Variance (v) Binomial distribution 07
- OR**
- Q.3** (a) Explain the maintenance and rehabilitation strategy 07
- (b) How the need assessment of the Infrastructure project is carried out ? Show the need assessment analysis for any one Infrastructure project 07
- Q.4** (a) Explain the features of any one Infrastructure project .describe its importance and impact . 07
- (b) Enlist the different types of studies required for infrastructure project and explain Economical and Technical studies 07
- OR**
- Q.4** (a) Explain performance evaluation of Infrastructure project 07
- (b) Explain the purposes to carry out life cycle analysis 07
- Q.5** (a) Explain different methods of economical analysis of Infrastructure project 07
- (b) Explain importance of data in Infrastructure project and its analysis 07
- OR**
- Q.5** (a) Explain characteristics of infrastructure project 07
- (b) Explain data required to be collected for transportation Infrastructure project 07
