

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – II • EXAMINATION – SUMMER • 2014****Subject code: 1721207****Date: 25-06-2014****Subject Name: Infrastructure Engineering and Management****Time: 02:30 pm - 05:00 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) Explain various steps of life cycle analysis. 07
(b) What is PPP? Discuss any two PPP Projects. 07
- Q.2 (a) Explain environmental risk and political risk. 07
(b) Explain the different rehabilitation strategies adopted. 07
OR
(b) Explain performance evaluation. 07
- Q.3 (a) Explain characteristics of infrastructure project. 07
(b) Explain determination of project cost and project revenues. 07
OR
- Q.3 (a) Write short note on: Role of infrastructure in development of country. 07
(b) Explain need analysis of any one type of infrastructure project. 07
- Q.4 (a) Explain any one probability distribution. 07
(b) Explain the challenges and risk involved in thermal power station project, Wanakbori at Gujarat. 07
OR
- Q.4 (a) Explain various parameters involved in data analysis. 07
(b) Explain Infrastructure Management System and its features. 07
- Q.5 (a) Explain data required to be collected for transportation infrastructure project. 07
(b) Explain various feasibility skills. 07
OR
- Q.5 (a) Explain case study of any Infrastructural Project. 07
(b) Explain different challenge mitigation strategies of infrastructure project. 07
