

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
ME - SEMESTER– II(Old course)• EXAMINATION (Remedial) – WINTER- 2015

Subject Code: 1721207

Date: 15/12/2015

Subject Name: Infrastructure Engineering and Management

Time:2:30 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) Discuss the challenges of managing infrastructure in cities. **07**
(b) What is life cycle analysis? Explain various phases. **07**

Q.2 (a) Discuss on different studies required for an infrastructure project. **07**
(b) What is the importance of data in life cycle analysis? **07**

OR

(b) Discuss different types of feasibility studies in brief. **07**

Q.3 (a) Elaborate on performance evaluation. **07**
(b) Explain on project costs and revenues in relation to life of infrastructure. **07**

OR

Q.3 (a) Elaborate on Infrastructure Management System and its features. **07**
(b) Discuss the planning process of Infrastructure for Building. **07**

Q.4 (a) What is an economic analysis of Infrastructure Project? **07**
(b) Explain components of power supply or gas supply system. **07**

OR

Q.4 (a) Prepare a note on: Integrated infrastructure management system. **07**
(b) What are the applications for infrastructure management system? **07**

Q.5 (a) Explain components of a water supply or sewerage system. **07**
(b) Discuss the reconstruction strategies for infrastructure failure. **07**

OR

Q.5 (a) Prepare a note on: Database management. **07**
(b) Explain any two PPP models in detail. **07**
