

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
ME - SEMESTER-II • EXAMINATION – SUMMER - 2017

Subject Code: 2723307

Date: 31/05/2017

Subject Name: Infrastructure Engineering and Management

Time: 02:30 PM To 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.

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|-----------|-----|--|----|
| Q.1 | (a) | What are the challenges for Infrastructure projects in the world? | 07 |
| | (b) | Describe the maintenance strategies of Road as infrastructure project | 07 |
| Q.2 | (a) | Explain performance evaluation of Infrastructure project. | 07 |
| | (b) | How the budget allotted for Infrastructure Project | 07 |
| OR | | | |
| | (b) | Explain with example Break even Analysis of Infrastructure project. | 07 |
| Q.3 | (a) | Write a short note on " Life cycle analysis". | 07 |
| | (b) | Explain the different probability distribution of the data analysis. | 07 |
| OR | | | |
| Q.3 | (a) | Which Infrastructure is more useful Hard or Soft? Explain in Detail. | 07 |
| | (b) | Why Data base management system is important for Infrastructure project. | 07 |
| Q.4 | (a) | How to calculate project revenue? What is the need to calculate revenue? | 07 |
| | (b) | Which are the sectors covered under infrastructure? Describe its importance. | 07 |
| OR | | | |
| Q.4 | (a) | Describe the need analysis survey for Waste water system. | 07 |
| | (b) | Define the term a) Standard Deviation b) Mean c) Benefit cost ratio | 07 |
| Q.5 | (a) | What is PPP? Explain the limitation of PPP infrastructure project. | 07 |
| | (b) | What is integrated infrastructure management system? | 07 |
| OR | | | |
| Q.5 | (a) | Explain with reason "Infrastructure project is unique". | 07 |
| | (b) | Explain reconstruction strategies for infrastructure project. | 07 |
