

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – II • EXAMINATION – WINTER • 2014

Subject code: 1721207

Date: 08-12-2014

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 the four main phases of life cycle analysis **07**
(b) What is the significance of the infrastructure in the development of India. **07**
- Q.2** (a) Describe the different type of risk involved in infrastructure project & explain commercial and political risk in the project **07**
(b) Explain the characteristics of the Infrastructure project **07**
- OR**
- (b) Describe the need analysis survey of the port project **07**
- Q.3** (a) Explain any typical Infrastructure and describe its various features **07**
(b) Describe the private sector funding in Infrastructure project and Explain (i) BT(ii) BOLT **07**
- OR**
- Q.3** (a) Describe the importance of the Management Information system in Infrastructure project **07**
(b) Describe rehabilitation strategies for any dam project **07**
- Q.4** (a) The following are the data of PCU in thousands during different days of a road calculate (i) Mean (ii) Median (iii) Standard deviation (iv) coefficient of variance **07**
Data : 1.3, 1.54, 1.2, 1.6, 1.55, 1.23, 1.57, 1.23, 1.90, 1.22, 1.38, 1.89, 1.16 and 2.01
(b) Explain binomial probability distribution of the data analysis **07**
- OR**
- Q.4** (a) Explain different sectors of Infrastructure in brief **07**
Q.4 (b) Describe the Environmental aspect of the Infrastructure project **07**
- Q.5** (a) Describe the studies required to be carried for the Infrastructure project **07**
(b) Explain role of data in Management Information system **07**
- OR**
- Q.5** (a) Describe the economical aspect of arriving at the user cost of any Infrastructure project **07**
(b) Describe the maintenance strategies of any Infrastructure project **07**
