Seat No.:	Enrolment No
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

ME – SEMESTER II (OLD) – • EXAMINATION – SUMMER 2016

Subject Code: 1721207 Date:21/05/2016

Subject Name: Infrastructure Engineering and Management

Time:10:30 am to 01:00 pm **Total Marks: 70** 

**Instructions:** 

1. Attempt all questions.

- Make suitable assumptions wherever necessary.
   Figures to the right indicate full marks.

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	Q.1	(a) (b)	Explain the sectors covered under infrastructure, highlighting its importance. What is Life Cycle Analysis? What are the goals and purpose of Life Cycle Analysis?	07 07
	Q.2	(a)	Explain Environmental, financial, technological and construction risk Involved in infrastructure projects.	07
		(b)	Explain Initial and Environmental Studies required for infrastructure Project.  OR	07
		(b)	Discuss case study of any typical infrastructure project giving Technical and planning details.	07
	Q.3	(a)	Why need assessment is required for any infrastructure projects?  Describe the need assessment of transportation project.	07
		(b)	Role of infrastructure in development of country.  OR	07
	0.3	(a)	Define project cost and project revenue. How it can be determined?	07
	Q.S	(b)	Explain the data requirements of infrastructure management system.	07
	Q.4	(a)	What is management information system? Give its functions and explain MIS With its advantages.	07
		(b)	Discuss on maintenance strategies of any civil engineering project.  OR	07
	Q.4	(a)	Write a note on performance evaluation.	07
	V.1	(b)	Explain the following terms: (i) Variance (ii) Standard deviation (iii) Sampling (iv) Confidence.	07
	Q.5	(a)	Explain importance of data in Infrastructure project and its analysis.	07
		(b)	Explain data required to be collected for transportation Infrastructure Project.	07
			OR	
	0.5	(a)	Explain different feasibility skills.	_07
	<b>V.</b>	(b)	Explain hard and soft infrastructure project in detail.	07
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