Seat No.: _____ **Enrolment No._____**

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VII (NEW) - EXAMINATION – SUMMER 2017

Subject Code: 2170611 **Date: 29/04/2017**

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.**

Q.1	**(a)**	Explain the sectors covered under infrastructure and highlighting its importance.	**07**
	(b)	Explain in details responsibilities of project manager in large scale construction project.	**07**
Q.2	**(a)**	Explain in brief various phases of project planning.	**07**
	(b)	What is project appraisal? Explain in brief technical aspects of a project appraisal.	**07**
		OR	
	(b)	Enlist different types of contract and explain any two in details.	**07**
Q.3	**(a)**	What is a work schedule? What are the purposes and objectives of preparing work schedule?	**07**
	(b)	Discuss the procedure of critical path method analysis with the help of simple example.	**07**
		OR	
Q.3	**(a)**	Write short note on: 1) Scrutiny of tender 2) Earnest money deposit and security deposit	**07**
	(b)	Explain in details Life cycle analysis of medium scale construction project.	**07**
Q.4	**(a)**	Enlist different types of risk for any type of construction project and explain any one in detail.	**07**
	(b)	Define tender. Draft a typical tender notice for civil engineering works.	**07**
		OR	
Q.4	**(a)**	Explain Governing Features of infrastructure project in details.	**07**
	(b)	Write short note on: 1) Liquidated damages and penalty 2) Contractual disputes	**07**
Q.5	**(a)**	Explain in details Procurement strategies in large scale construction project.	**07**
	(b)	Explain in detail various sources of funding for a large scale construction project.	**07**
		OR	
Q.5	**(a)**	Describe the main organizational structure for large scale construction project and give their advantages and disadvantages.	**07**
	(b)	Discuss the guideline to be kept in mind while estimating the incremental cash flows of a project.	**07**

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