

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE- SEMESTER-VII (NEW) EXAMINATION - WINTER 2020** 

Subject Code:2170611 Date:19/01/2021

## **Subject Name:Infrastructure Engineering And Management**

Time:10:30 AM TO 12:30 PM Total Marks: 56

## **Instructions:**

- 1. Attempt any FOUR questions out of EIGHT questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

			MARKS
Q.1	(a)	Explain in brief general overview of infrastructure development history in India.	03
	<b>(b)</b>	What are the different types of project organization? Explain any one in detail.	04
	(c)	Draw a flow chart and explain various steps to be followed for successful completion of large scale construction project.	07
Q.2	(a)	Explain in brief key issues you would examine in preliminary screening exercise for a large scale construction project.	03
	<b>(b)</b>	What is life cycle analysis? What are the goals and purposes of life cycle analysis?	04
	(c)	Discuss case study of any typical infrastructure project giving technical and planning details.	07
Q.3	(a)	Enlist the points to be kept in mind while estimating the working capital requirement for a large scale construction project.	03
	<b>(b)</b>	Explain in brief different types of risk involved in a large scale construction project.	04
	(c)	What is project appraisal? Explain in brief technical aspects of a project appraisal.	07
Q.4	(a)	Explain the procedure for awarding a contract.	03
	<b>(b)</b>	Define Infrastructure. Enlist hard and soft infrastructure.	04
	(c)	What is a work schedule? What are the purposes and objectives of preparing work schedule?	07
Q.5	(a)	Write a short not on Contractual disputes	03
	<b>(b)</b>	Discuss the guidelines to be kept in mind while estimating the incremental cash flows of a project.	04
	(c)	What is meant by scope verification? Explain application of MCA (Multi critical analysis) in decision making with example.	07
Q.6	(a)	List out the points to be kept in mind while preparing tender document.	03
	<b>(b)</b>	Enlist different type of tenders and explain anyone in detail.	04
	(c)	Explain following steps of project management process with examples: Project Initiating, Project Planning, Project Executing, and Project Controlling.	07
Q.7	(a)	Define Contract and explain its importance in infrastructure projects.	03



trank	(b) (c)	Explain in brief CPWwn FirstRanker.com www.FirstRanker.com Why it is important to identify critical path in project scheduling? Discuss the procedure of critical path method analysis with the help of simple example.	nk <mark>ef</mark> .com 07
Q.8	(a)	Write a short note on Liquidated damages	03
	<b>(b)</b>	Explain in brief application of network analysis for a particular project.	04
	(c)	Enlist different type of engineering contracts and write a short note on different clauses of engineering contracts	07

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