

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VII (NEW) EXAMINATION – SUMMER 2022****Subject Code:2170611****Date:01/06/2022****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.
4. Simple and non-programmable scientific calculators are allowed.

		<b>MARKS</b>
<b>Q.1</b>	(a) State the need of Infrastructure management in India.	<b>03</b>
	(b) Enlist the different type of infrastructure.	<b>04</b>
	(c) Explain in detail Infrastructure operation in India.	<b>07</b>
<b>Q.2</b>	(a) Enlist phases of project planning and explain any one in detail	<b>03</b>
	(b) Explain project integration management.	<b>04</b>
	(c) Explain stages of Life cycle analysis.	<b>07</b>
<b>OR</b>		
	(c) Enlist the different type of project organization. Explain any two in detail.	<b>07</b>
<b>Q.3</b>	(a) Explain objectives of preparing work schedule.	<b>03</b>
	(b) Draw cash flow profile of infrastructure project.	<b>04</b>
	(c) Explain in brief technical aspect of project appraisal	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) State the controlling as a project management function.	<b>03</b>
	(b) Differentiate hard and soft infrastructure	<b>04</b>
	(c) Explain with case study- MCA (Multi critical analysis) used for decision making.	<b>07</b>
<b>Q.4</b>	(a) Discuss Importance of Sectors covered under infrastructure.	<b>03</b>
	(b) Enlist the points to be considered for estimating working capital requirement for infrastructure project.	<b>04</b>
	(c) Differentiate between EPC and PPP project.	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) Explain project scope management.	<b>03</b>
	(b) Enlist the points to be considered for preparing tender document.	<b>04</b>
	(c) Enlist the different type of contract and explain EPC contract.	<b>07</b>
<b>Q.5</b>	(a) Define the term 1) Security deposit 2) NIT	<b>03</b>
	(b) How the contractual dispute can be execute?	<b>04</b>
	(c) Identify the contract suitable for construction of School building.	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) Define the term 1) Agreement 2) Tender	<b>03</b>
	(b) Enlist the funding sources for large scale construction project.	<b>04</b>
	(c) Describe the Item rate contract with advantages and disadvantages.	<b>07</b>

\*\*\*\*\*