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GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER– VIII (New) EXAMINATION – WINTER 2019

Subject Code: 2181704   **Date: 27/11/2019**
Subject Name: Project 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.**

			MARKS
Q.1	**(a)**	Briefly explain the concept of project management	**03**
	(b)	What is " project" ? Explain project "S" curve	**04**
	(c)	Explain EPC and BOOT contracts with suitable examples	**07**
Q.2	**(a)**	List out various types of projects and explain any one type.	**03**
	(b)	Explain work break down structure (WBS).	**04**
	(c)	Explain project management functions in detail.	**07**
		OR	
	(c)	Explain interpersonal influence and standard communication process in detail.	**07**
Q.3	**(a)**	Explain the concept of project cost.	**03**
	(b)	Briefly explain any one type of software used for project management.	**04**
	(c)	Explain PERT and CPM techniques in detail	**07**
		OR	
Q.3	**(a)**	What do you mean by control valve sizing? Briefly explain it.	**03**
	(b)	Describe the specifications of an industrial control valve.	**04**
	(c)	Explain project engineering documents and drawings in detail	**07**
Q.4	**(a)**	What do you mean by intrinsic safety?	**03**
	(b)	Explain the selection criteria for control valve.	**04**
	(c)	Draw and explain the characteristics of control valve in detail.	**07**
		OR	
Q.4	**(a)**	What is the meaning of erection and commissioning of plant?	**03**
	(b)	Briefly explain the elements of closed loop control system in the plant.	**04**
	(c)	Explain plant start up procedure in detail.	**07**
Q.5	**(a)**	Explain selection criteria for pressure instruments	**03**
	(b)	What is loop check? Explain it with example.	**04**
	(c)	What is ISO? Explain ISO 9000 for quality systems	**07**
		OR	
Q.5	**(a)**	Explain selection criteria for flow instruments	**03**
	(b)	Explain installation of rota meter and orifice.	**04**
	(c)	Explain the quality management practices worldwide and also explain the concept of certifying agencies.	**07**

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