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

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VIII (NEW) - EXAMINATION – SUMMER 2018

Subject Code: 2181704 Date: 04/05/2018

Subject Name: Project Engineering and Management

Time: 10:30 AM to 01:00 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)**	What is the project management? What are benefits from project management?	**03**
	(b)	Write short note on types of project.	**04**
	(c)	Write short note on project management functions.	**07**
Q.2	**(a)**	How to estimate activity time of project?	**03**
	(b)	Differentiate between PERT and CPM method.	**04**
	(c)	Write short note on life-cycle phases of project planning.	**07**
		OR	
	(c)	Write short note on Bar (Gantt) Chart.	**07**
Q.3	**(a)**	Write the importance of instrument index sheets.	**03**
	(b)	What are responsibilities and duties of project manager in a project control?	**04**
	(c)	Write short note on loop wiring diagram and process flow sheets.	**07**
		OR	
Q.3	**(a)**	Differentiate between pneumatic and electronic system.	**03**
	(b)	Write design criteria for the flow measurement.	**04**
	(c)	Classify hazardous locations as per NEC code.	**07**
Q.4	**(a)**	Write various methods used for flow and pressure measurement.	**03**
	(b)	Write various method used for temperature measurement. Explain any one with advantages.	**04**
	(c)	Write the operating conditions for the selection of level measurement method? Explain any one level measurement method.	**07**
		OR	
Q.4	**(a)**	Classify control valve based on their function.	**03**
	(b)	Discuss single and double seat construction of control valve .	**04**
	(c)	Discuss control valve noise problem.	**07**
Q.5	**(a)**	Which documents required for the efficient installation of instruments system?	**03**
	(b)	Define startup time. What are problem faced during this time?	**04**
	(c)	What is Loop check? Write check-out procedure for filled system temperature transmitter.	**07**
		OR	
Q.5	**(a)**	Define: (1) valve flow capacity Cv (2) rangeability (3) cavitation.	**03**
	(b)	Discuss control valve flow characteristics.	**04**
	(c)	Discuss ISO 9000 test standard and calibration.	**07**

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