Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VIII (NEW) EXAMINATION – WINTER 2017

Subject Code: 2181704 Date: 02/11/2017

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)**	Enlist various types of project engineering documents.	**03**
	(b)	Explain mechanical flow sheets and process flow sheets with diagrams.	**04**
	(c)	Explain various types of projects and contracts in details.	**07**
Q.2	**(a)**	Describe importance of project management	**03**
	(b)	Explain EPC and BOOT types of projects.	**04**
	(c)	What is importance of S curve? Compare CPM vs PERT technique.	**07**
		OR	
	(c)	Explain term: Project breakdown structure and planning cycle, project specification, Bar charts related to project management.	**07**
Q.3	**(a)**	Describe various types of project management functions	**03**
	(b)	Explain project controlling and project planning, scheduling in details. .	**04**
	(c)	Describe various types of project management functions and explain project controlling and project planning, scheduling in details.	**07**
		OR	
Q.3	**(a)**	Explain significance of wiring and tagging	**03**
	(b)	Compare electronic and pneumatic system with various points.	**04**
	(c)	Describe various types of control valve with its application.	**07**
Q.4	**(a)**	Explain various types of orifice plates.	**03**
	(b)	Write short note on electronic and pneumatic wiring diagram.	**04**
	(c)	Enlist types of level instruments and describe its selection process.	**07**
		OR	
Q.4	**(a)**	What is need of calibration in process industry?	**03**
	(b)	Explain temp. Transmitter loop checking process.	**04**
	(c)	Write short note about various types of pressure measurement instrument.	**07**
Q.5	**(a)**	Enlist various types of flow instrument and narrate its selecting methods.	**03**
	(b)	Define control valve coefficient.	**04**
	(c)	Write short note on control valve selection	**07**
		OR	
Q.5	**(a)**	What is the reason to use 4 to 20 mA standard?	**03**
	(b)	Explain single seat, multi seat, split rang, valve range ability related to control valve.	**04**
	(c)	Describe various types of standard and explain ISO 9000 test and calibration standard.	**07**