

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– VIII (NEW) EXAMINATION – WINTER 2021****Subject Code:2181704****Date:29/11/2021****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.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Enlist various types of Project Engineering Documents.	03
	(b) Explain importance of Bar (Gantt) chart related to project management	04
	(c) Narrate various types of contracts in details.	07
Q.2	(a) Enlist advantage and application of hydraulic system.	03
	(b) What is calibration? Enlist importance of calibration.	04
	(c) Enlist various types of flow measurement instruments and explain selection process of any two.	07
OR		
	(c) Describe various types of project management functions and explain project controlling and project planning, scheduling in details	07
Q.3	(a) Classify various hazardous zone	03
	(b) Discuss cavitations and flashing related to control valve	04
	(c) Enlist various types of Temperature measurement instruments and explain selection process of any two.	07
OR		
Q.3	(a) Draw diagram for orifice plate installation for gas and slurry application	03
	(b) Define : valve range ability and valve coefficient	04
	(c) Write short note on CPM and PERT technique	07
Q.4	(a) Why 4 -20 mA used as standard input?	03
	(b) Define start up time. What are the problems faced during start up?	04
	(c) Compare electronics, pneumatic and hydraulic system with examples.	07
OR		
Q.4	(a) What are the fundamental safety measures in industry?	03
	(b) What are the types of S curve? Narrate importance of S curve	04
	(c) Enlist various types of valve and explain selection process of control valve.	07
Q.5	(a) Draw P & I diagram for split range control	03
	(b) Write short note on process flow sheet	04
	(c) Discuss ISO standard utility in industry? Explain ISO 9000 test standard.	07
OR		
Q.5	(a) Discuss control valve flow characteristics	03
	(b) Explain cascade control with diagram.	04
	(c) What is necessity of Loop check? Write check-out procedure for filled system temperature transmitter.	07
