

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-VIII (NEW) EXAMINATION – WINTER 2020****Subject Code:2181704****Date:25/01/2021****Subject Name:Project Engineering and Management****Time:02:00 PM TO 04:00 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

			MARKS
Q.1	(a)	What do you mean by project and project management? Explain the concept.	03
	(b)	Explain project management functions.	04
	(c)	With suitable diagram explain Project S Curve in detail.	07
Q.2	(a)	Briefly explain loop wiring diagram and list out instruments as a part of closed loop control loop.	03
	(b)	What do you mean by EPC and BOOT contracts?	04
	(c)	Explain Work Breakdown Structure (WBS) and Cost Breakdown Structure (CBS) in detail.	07
Q.3	(a)	What do you mean by intrinsic safety?	03
	(b)	Explain fixed cost and variable costs with examples.	04
	(c)	Analyze the selection criteria for control valves.	07
Q.4	(a)	What is statement of work (SOW) in project management?	03
	(b)	Explain the difference between pneumatic and electronic transmission system.	04
	(c)	Analyze the selection criteria for flow sensors.	07
Q.5	(a)	What do you mean by calibration?	03
	(b)	List out various temperature instruments.	04
	(c)	Explain plant start up procedure in detail.	07
Q.6	(a)	What is zero and span adjustment in calibration?	03
	(b)	List out various pressure instruments.	04
	(c)	Explain special purpose control valves. Also explain any application of split range control valve.	07
Q.7	(a)	What is ISO? Explain its purpose.	03
	(b)	Explain bid documents for instrument project control.	04
	(c)	Explain vortex type flow meter in detail.	07
Q.8	(a)	What do you mean by ISO9000? Explain its purpose.	03
	(b)	Write difference between PERT and CPM techniques.	04
	(c)	Explain optical and radiation pyrometers in detail.	07
