

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII(NEW) EXAMINATION – SUMMER 2019****Subject Code:2181704****Date:15/05/2019****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) Explain importance of project management related to Instrumentation engineering.	03
	(b) Enlist various documents related to project management.	04
	(c) Discuss various types of projects and contracts in details.	07
Q.2	(a) What is calibration? Explain calibration process of pressure gauge.	03
	(b) Compare EPC and BOOT types of project with example.	04
	(c) Enlist types of level instruments and describe its selection process.	07
	OR	
	(c) Explain term: Project breakdown structure and planning cycle, project specification, and various charts related to project management.	07
Q.3	(a) What are the standards input and supply pressure in Instrumentation system? Discuss reason to use such standard.	03
	(b) What are the various types of S curve? Explain its importance with one example.	04
	(c) Compare CPM vs PERT technique with types of industry.	07
	OR	
Q.3	(a) Explain in brief: estimation of activity time of project.	03
	(b) Define control valve coefficient	04
	(c) Discuss various types of project management functions and explain project controlling and project planning, scheduling in details.	07
Q.4	(a) Explain importance of wiring and tagging in control panel	03
	(b) Enlist various types of flow measurement techniques.	04
	(c) Enlist types of pressure instruments and describe its selection process.	07
	OR	
Q.4	(a) What is Loop check? Write check-out procedure for filled system temperature transmitter.	03
	(b) Classify hazardous locations as per NEC code.	04
	(c) Compare pneumatic, electric and hydraulic system with various points.	07
Q.5	(a) Explain concept of dead zero and live zero.	03
	(b) Define startup time. What are problem faced during this time?	04
	(c) Enlist various types of control valve used for slurry application. Write short note on control valve selection	07
	OR	
Q.5	(a) Write short note on Bar Chart and its application.	03
	(b) Narrate importance of instrument tagging.	04
	(c) What are the various types of ISO certification and standards? Discuss 9000 test and calibration standard.	07
