

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2023

Subject Code:3161713

Date:02-12-2023

Subject Name:Instrumentation Project 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.
4. Simple and non-programmable scientific calculators are allowed.

	MARKS
Q.1* (a) State TRUE/FALSE with justification in brief.	03
1. CPM technique used in R & D types of projects	
2. Full form of PERT is Project Engineering Review Technique	
3. Toll Tax project is example of BOT	
(b) Enlist various documents related to project management	04
(c) Enlist various Flow transmitter? Explain its selection criteria.	07
Q.2 (a) What is dead zero and live zero explain with example.	03
(b) What are the various project S curve? explain with example	04
(c) Enlist various types of level measurement technique and explain selection criteria for level transmitter.	07
OR	
(c) Write short note on various types of projects and contracts.	07
Q.3 (a) What do you understand by intrinsic safe instruments explain with example.	03
(b) Explain application of bar chart with one process application.	04
(c) Compare CPM and PERT with various points.	07
OR	
Q.3 (a) Discuss importance of ISO certification in organization in service industry like Hospital or Hotel	03
(b) Explain importance of tagging in Instruments	04
(c) Draw single port and double port control valve. Explain control valve characteristics.	07
Q.4 (a) Discuss ISO 9000 certification process	03
(b) Why calibration is important in process instruments? Explain pressure gauge calibration process	04
(c) Write short note on control valve selection.	07
OR	
Q.4 (a) Define valve coefficient.	03
(b) Explain term : Project breakdown and preventive maintenance	04
(c) Enlist project management function. Explain various project management function Planning, scheduling in details	07
Q.5 (a) Differentiate term construction and startup related to project	03
(b) Classify hazardous location as per NEC code.	04
(c) Enlist various types of pressure instruments and its selection process	07
OR	
Q.5 (a) Describe process of loop check in transmitter.	03
(b) What is zero elevation and zero suppression in transmitter?	04
(c) Compare pneumatic, hydraulic and electric system with various points.	07
