

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI(NEW) EXAMINATION – WINTER 2022****Subject Code:3161713****Date:13-12-2022****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) List several project Engineering documents required for any project.	03
	(b) State various International codes and standards used in Instrumentation Design Engineering.	04
	(c) List various points of difference between PERT and CPM	07
Q.2	(a) Explain Gantt Chart	03
	(b) State features of electromagnetic flow meter.	04
	(c) Explain in detail different project management functions	07
OR		
	(c) List types of contracts used in Engineering and construction industries and explain them in detail.	07
Q.3	(a) List out major events that take place while planning the schedule.	03
	(b) State the various steps of CPM network technique for project planning.	04
	(c) List functions of project manager and explain each in detail.	07
OR		
Q.3	(a) Define term 'Project procedure '. What type of information it should provide?	03
	(b) What is EPC? List out the various sectors and some EPC companies in India.	04
	(c) What is statement of work? Explain in detail components of Statement of Work (SOW).	07
Q.4	(a) What is S curve and its use in projects?	03
	(b) What are project procedures?	04
	(c) What are the points to be kept in mind while selecting level measurement instruments and state advantages and disadvantages of ultrasonic type level detectors?	07
OR		
Q.4	(a) Differentiate between pneumatic and electronics	03
	(b) Discuss panel drawings and specifications	04
	(c) Prepare detailed checklist of Good installation practices	07
Q.5	(a) State advantages of rotameter	03
	(b) State the difference between single port and double port globe body design. In slurry fluid, which kind of control valve should be used? Justify your answer.	04
	(c) Define startup. Explain in detail problems faced during this period in detail	07

OR

- Q.5** (a) Brief about types of control valves and its application. **03**
(b) Evaluate following temperature measurement methods. **04**
i) Filled systems, ii) RTD , iii) Thermocouple
(c) Classify areas as per NEC Code **07**
