

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2017

Subject Code: 2181704

Date: 02/11/2017

Subject Name: Project Engineering and 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.

		MARKS
Q.1	(a) Enlist various types of project engineering documents.	03
	(b) Explain mechanical flow sheets and process flow sheets with diagrams.	04
	(c) Explain various types of projects and contracts in details.	07
Q.2	(a) Describe importance of project management	03
	(b) Explain EPC and BOOT types of projects.	04
	(c) What is importance of S curve? Compare CPM vs PERT technique.	07
OR		
	(c) Explain term: Project breakdown structure and planning cycle, project specification, Bar charts related to project management.	07
Q.3	(a) Describe various types of project management functions	03
	(b) Explain project controlling and project planning, scheduling in details. .	04
	(c) Describe various types of project management functions and explain project controlling and project planning, scheduling in details.	07
OR		
Q.3	(a) Explain significance of wiring and tagging	03
	(b) Compare electronic and pneumatic system with various points.	04
	(c) Describe various types of control valve with its application.	07
Q.4	(a) Explain various types of orifice plates.	03
	(b) Write short note on electronic and pneumatic wiring diagram.	04
	(c) Enlist types of level instruments and describe its selection process.	07
OR		
Q.4	(a) What is need of calibration in process industry?	03
	(b) Explain temp. Transmitter loop checking process.	04
	(c) Write short note about various types of pressure measurement instrument.	07
Q.5	(a) Enlist various types of flow instrument and narrate its selecting methods.	03
	(b) Define control valve coefficient.	04
	(c) Write short note on control valve selection	07
OR		
Q.5	(a) What is the reason to use 4 to 20 mA standard?	03
	(b) Explain single seat, multi seat, split rang, valve range ability related to control valve.	04
	(c) Describe various types of standard and explain ISO 9000 test and calibration standard.	07