

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII EXAMINATION – SUMMER 2020****Subject Code: 2181704****Date: 26.10.2020****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) What is project? Explain with suitable example.	03
	(b) What is project S curve? Briefly explain it with example.	04
	(c) Explain project management functions in detail.	07
Q.2	(a) What do you mean by WBS? Briefly explain it.	03
	(b) Explain the difference between EPC and BOOT contract	04
	(c) With suitable example explain PERT technique.	07
	OR	
	(c) With suitable example explain CPM.	07
Q.3	(a) Briefly explain pneumatic transmission system.	03
	(b) Discuss the selection criteria for control valves.	04
	(c) List out project engineering documents and drawings and also explain them briefly.	07
	OR	
Q.3	(a) Briefly explain electronic transmission system.	03
	(b) Discuss the selection criteria for flow instruments.	04
	(c) Draw and explain characteristics of control valves.	07
Q.4	(a) What do you mean by loop checking?	03
	(b) Discuss the selection criteria for control valve actuators.	04
	(c) Elaborate and discuss plant start up procedure in detail.	07
	OR	
Q.4	(a) What do you mean by intrinsic safety in plants?	03
	(b) Discuss the selection criteria for temperature instruments	04
	(c) Discuss the installation procedure for rotameter and control valve.	07
Q.5	(a) Briefly explain split range control valve.	03
	(b) What is ISO ? Why is it required?	04
	(c) Discuss the quality management practices used worldwide and certifying agencies.	07
	OR	
Q.5	(a) What is temperature switch? Briefly explain it.	03
	(b) Discuss selection criteria for pressure instruments.	04
	(c) Explain in detail the concepts of quality, customers and ISO 9000	07
