

**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
<b>Q.1</b>	(a) What is project? Explain with suitable example.	<b>03</b>
	(b) What is project S curve? Briefly explain it with example.	<b>04</b>
	(c) Explain project management functions in detail.	<b>07</b>
<b>Q.2</b>	(a) What do you mean by WBS? Briefly explain it.	<b>03</b>
	(b) Explain the difference between EPC and BOOT contract	<b>04</b>
	(c) With suitable example explain PERT technique.	<b>07</b>
<b>OR</b>		
	(c) With suitable example explain CPM.	<b>07</b>
<b>Q.3</b>	(a) Briefly explain pneumatic transmission system.	<b>03</b>
	(b) Discuss the selection criteria for control valves.	<b>04</b>
	(c) List out project engineering documents and drawings and also explain them briefly.	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) Briefly explain electronic transmission system.	<b>03</b>
	(b) Discuss the selection criteria for flow instruments.	<b>04</b>
	(c) Draw and explain characteristics of control valves.	<b>07</b>
<b>Q.4</b>	(a) What do you mean by loop checking?	<b>03</b>
	(b) Discuss the selection criteria for control valve actuators.	<b>04</b>
	(c) Elaborate and discuss plant start up procedure in detail.	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) What do you mean by intrinsic safety in plants?	<b>03</b>
	(b) Discuss the selection criteria for temperature instruments	<b>04</b>
	(c) Discuss the installation procedure for rotameter and control valve.	<b>07</b>
<b>Q.5</b>	(a) Briefly explain split range control valve.	<b>03</b>
	(b) What is ISO ? Why is it required?	<b>04</b>
	(c) Discuss the quality management practices used worldwide and certifying agencies.	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) What is temperature switch? Briefly explain it.	<b>03</b>
	(b) Discuss selection criteria for pressure instruments.	<b>04</b>
	(c) Explain in detail the concepts of quality, customers and ISO 9000	<b>07</b>

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