

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– VIII (New) EXAMINATION – WINTER 2019****Subject Code: 2181704****Date: 27/11/2019****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) Briefly explain the concept of project management	03
	(b) What is “ project” ? Explain project “S” curve	04
	(c) Explain EPC and BOOT contracts with suitable examples	07
Q.2	(a) List out various types of projects and explain any one type.	03
	(b) Explain work break down structure (WBS).	04
	(c) Explain project management functions in detail.	07
OR		
	(c) Explain interpersonal influence and standard communication process in detail.	07
Q.3	(a) Explain the concept of project cost.	03
	(b) Briefly explain any one type of software used for project management.	04
	(c) Explain PERT and CPM techniques in detail	07
OR		
Q.3	(a) What do you mean by control valve sizing? Briefly explain it.	03
	(b) Describe the specifications of an industrial control valve.	04
	(c) Explain project engineering documents and drawings in detail	07
Q.4	(a) What do you mean by intrinsic safety?	03
	(b) Explain the selection criteria for control valve.	04
	(c) Draw and explain the characteristics of control valve in detail.	07
OR		
Q.4	(a) What is the meaning of erection and commissioning of plant?	03
	(b) Briefly explain the elements of closed loop control system in the plant.	04
	(c) Explain plant start up procedure in detail.	07
Q.5	(a) Explain selection criteria for pressure instruments	03
	(b) What is loop check? Explain it with example.	04
	(c) What is ISO? Explain ISO 9000 for quality systems	07
OR		
Q.5	(a) Explain selection criteria for flow instruments	03
	(b) Explain installation of rota meter and orifice.	04
	(c) Explain the quality management practices worldwide and also explain the concept of certifying agencies.	07
