

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2018****Subject Code: 2181704****Date: 26/11/2018****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

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|------------|---|-----------|
| Q.1 | (a) Define the term “project” and its purpose in Engineering. | 03 |
| | (b) Define Degree of automation in Project management. | 04 |
| | (c) Discuss Basic and detailed engineering Project Management. | 07 |
| Q.2 | (a) Define life-cycle phases of project planning | 03 |
| | (b) Explain term: | 04 |
| | 1. Project breakdown structure and planning cycle. | |
| | 2. Project specification. | |
| | 3. Bar charts related to project management. | |
| | (c) Define Project S curve. Discuss CPM & PERT Methods. | 07 |
| | OR | |
| | (c) Explain EPC and BOOT types of projects in detail. | 07 |
| Q.3 | (a) Define term Project Reviews. | 03 |
| | (b) Explain Projects specifications | 04 |
| | (c) Explain project controlling and project planning, scheduling in details. . | 07 |
| | OR | |
| Q.3 | (a) Enlist various types of project management function. | 03 |
| | (b) Explain Cost breakdown structures and planning cycle. | 04 |
| | (c) Discuss advantages of Project management. | 07 |
| Q.4 | (a) List methods used for flow and pressure measurement. | 03 |
| | (b) Explain temp. Transmitter loop checking process | 04 |
| | (c) Explain any one level measurement method in detail. | 07 |
| | OR | |
| Q.4 | (a) Enlist control valve based on their function. | 03 |
| | (b) Explain control valve coefficient. | 04 |
| | (c) Discuss control valve noise problem in detail. | 07 |
| Q.5 | (a) Define 4 to 20 mA standard. | 03 |
| | (b) Compare single seat, multi seat, split rang, valve range ability related to control valve | 04 |
| | (c) Discuss ISO 9000 test standard and calibration. | 07 |
| | OR | |
| Q.5 | (a) Define: (1) valve flow capacity Cv (2) rangeability (3) cavitation. | 03 |
| | (b) Discuss control valve flow characteristics. | 04 |
| | (c) What is Loop check? Write check-out procedure for filled system temperature transmitter | 07 |
