

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014

Subject Code: 161701**Date: 19-05-2014****Subject Name: Instrumentation System****Time: 10:30 am - 01:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
- 4.

- Q.1** (a) Discuss duties of project manager, process engineer and equipment engineer. **07**
(b) Discuss panel bid specifications and inspection. **07**
- Q.2** (a) Discuss electronic v/s pneumatic instruments and design based on it. **07**
(b) Discuss specifications for various measurement and control groups in brief. **07**
- OR**
- (b) Discuss electric safety and intrinsic safety. **07**
- Q.3** (a) Discuss selecting of a flow measuring instrument in detail. **07**
(b) Explain any typical control room layout. **07**
- OR**
- Q.3** (a) Discuss selecting of a pressure measuring instrument in detail. **07**
(b) Discuss different types of control panels in brief. **07**
- Q.4** (a) Discuss positive displacement type compressors. **07**
(b) Explain desiccant type dryers. **07**
- OR**
- Q.4** (a) Discuss dynamic displacement type compressors. **07**
(b) Explain necessity of dryers. **07**
- Q.5** (a) Discuss check list of good installation procedures. **07**
(b) Explain typical flow transmitter checkout procedure. **07**
- OR**
- Q.5** (a) Discuss typical instrumentation air supply system. **07**
(b) Explain importance of loop wiring diagram and process flow sheets. (use examples) **07**
