Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VI • EXAMINATION - SUMMER • 2014

Subj	ject	Code: 161701 Date: 19-05-2014	
Sub	ject ]	Name: Instrumentation System	
_		0:30 am - 01:00 pm Total Marks: 70	
Instru		•	
		Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Ο 1	4.		07
Q.1	(a)	Discuss duties of project manager, process engineer and equipment engineer.	07
	<b>(b)</b>	Discuss panel bid specifications and inspection.	07
Q.2	(a)	Discuss electronic v/s pneumatic instruments and design based on it.	07
	<b>(b)</b>	Discuss specifications for various measurement and control groups in brief.	07
		OR	
	<b>(b)</b>	Discuss electric safety and intrinsic safety.	07
Q.3	(a)	Discuss selecting of a flow measuring instrument in detail.	07
	<b>(b)</b>	Explain any typical control room layout.	07
		OR	
Q.3	(a)	Discuss selecting of a pressure measuring instrument in detail.	07
	<b>(b)</b>	Discuss different types of control panels in brief.	07
<b>Q.4</b>	(a)	Discuss positive displacement type compressors.	07
	<b>(b)</b>	Explain desiccant type dryers.	07
		OR	. –
<b>Q.4</b>	(a)	Discuss dynamic displacement type compressors.	07
	<b>(b)</b>	Explain necessity of dryers.	07
Q.5	(a)	Discuss check list of good installation procedures.	07
	<b>(b)</b>	Explain typical flow transmitter checkout procedure.	07
		OR	
Q.5	(a)	Discuss typical instrumentation air supply system.	07
	<b>(b)</b>	Explain importance of loop wiring diagram and process flow sheets. (use examples)	07

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