Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VI • EXAMINATION – SUMMER • 2015

Subject code: 162401Date: 01/05/2015Subject Name: Industrial InstrumentationTotal Marks: 70			
 Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 			
Q.1	(a) (b)	classification on the basis of transduction principle.	07 07
Q.2	(a) (b)	screening steps taken in SITS?	
		OR	
	(b)	Explain construction, type and application of Thermister.	07
Q.3	(a)	Explain seeback effect. Explain construction and properties of type S thermocouples.	07
	(b)		07
Q.3	(a)	OR Explain seeback effect. Explain construction and properties of J-K thermocouples.	07
	(b)	•	07
Q.4	(a)	Explain LVDT with neat construction diagram and plot of output voltage against core displacement.	07
	(b)	Write a technical short note on: Fiber Optic Sensors.	07
Q.4	(a) (b)		07 07
Q.5	(a)	Draw a diagram to show the construction of an unbounded strain gauge.	07 07
	(b)	Explain its operation. OR	
Q.5	(a) (b)	Write Technical Note on: SHE	07 07
