Se	at No	Enrolment No GUJARAT TECHNOLOGICAL UNIVERSITY		
		GUJARAT TECHNOLOGICAL UNIVERSITT M.E –II st SEMESTER–EXAMINATION – JULY- 2012		
Subject code: 1720310 Date: 14/07			/2012	
Su	Subject Name: Industrial MeasurementsTime: 10:30 am – 13:00 pmTotal Marks:			
In		ctions:		
	2. I	Attempt all questions. Make suitable assumptions wherever necessary.		
	3. I	Figures to the right indicate full marks.		
Q.1	(a)	Explain reference electrode for PH measurement with neat sketch.	07	
	(b)	Explain gas density measurement scheme with neat sketch.	07	
Q.2	(a)	Explain laser diameter gauge with neat sketch.	07	
	(b)	Explain torque measurement scheme with neat diagram.	07	
	<i>(</i> -)	OR	~ -	
	(b)	Explain the working of air purge system for level measurement.	07	
Q.3	(a)	Explain principle and working of Ultrasonic level detector for level measurement of solid materials in detail.	07	
	(b)	Explain principle, working, construction and merits of mass flow meter with neat diagram.	07	
		OR		
Q.3	(a)	Explain principle, working and merits of pitot tube flow meter with neat diagram.	07	
	(b)	Explain principle, working, construction and merits of rotameter with neat diagram.	07	
Q.4	(a)	Compare different types of manometers for their merits, principle, applications.	07	
Ľ	(b)	Explain construction, working and application of pirani gauge for vacuum measurement.	07	
		OR		
Q.4	(a)	Give the classification of transducers in detail.	07	
Q.4	(b)	Explain working and principle of strip chart recorder.	07	
Q.5	(a)	Explain principle and working of optical pyrometer with neat sketch.	07	
	(b)	Give classification of thermometers with their application, range and merits as well as limitations.	07	
		OR		
Q.5	(a)	Explain principle, working, construction and merits of any one quantity flow metre with neat diagram.	07	
	(b)	Explain principle, working, and merits of hydrostatic pressure type level measurement with neat diagram.	07	
