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

Diploma Engineering - SEMESTER-IV • EXAMINATION - SUMMER 2013

Subject Code: 345501 Date: 03-06-201			13
Time	: 10:30	ne: Instrumentation Control and Quality Assurance ) am - 01:00 pm	70
Instru	<ol> <li>Att</li> <li>Ma</li> <li>Fig</li> </ol>	empt all questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks. glish version is considered to be Authentic.	
Q.1	(a)	Classify the measuring instrument. Explain the factors affecting for	07
	(b)	Selection of measuring instruments.  Define the term "static characteristics" of instruments.  Explain in brief: the different static characteristics of them.	07
Q.2	(a)	Define "Errors" in measurement.	07
	(b)	Classify & Explain different types of errors in measurement.  Define the term "metrology" and explain the various objective of metrology  OR	07
0.3	(b)	Explain in brief: Micrometer screw gauge with neat sketch.	07
Q.3	(a) (b)	Make 35.2685 mm dimension by using M -112 slip gauge set. Explain in brief with neat sketch application of sine bar with use of slip gauge set and dial gauge.	07 07
		OR	
Q.3	(a)	Make 30°10'18" dimension by using angle gauge set draw Its sketch.	07
0.4	(b)	Define the term "straightness, flatness, square-ness & parallelism". List different methods to measure each of them.	07
Q.4	(0)	Explain calibration of dead weight piston gauge with neat sketch.	07
	(a) (b)	List different flow measuring devices. Explain in brief: Any two device with neat sketch	07
0.4	(-)	OR	07
Q. 4	(a) (b)	Explain thermister with neat sketch.  Explain automatic control system with block diagram.	07 07
Q.5	(a)	Explain role of third party in inspection agency working in fabrication industry. List different TPI working in field of	07
	(b)	fabrications .  Define the term quality control.  Explain the objective and advantages quality control.	07
Q.5	(a) (b)	OR Explain duties of inspector in fabrication industry? Write a short note on: 1. Quality circle 2. Kaizen	07 07

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