## Quiz-1

## Measurement and Instrumentation EC-501 III rd year EC1

Date: 27th August' 2012

Nam	ie:											
Roll	Number:											
1.	Which is NOT a type of Error in Measurement Systems and Measuring Instruments?											
	a). Gross Error		b)	. Sys	tem	atic l	Erro	r				
	c). Arithmetic E	rror	d)	. Rar	ndon	n Eri	or					
2. According to Normal Law, what is the range of proba							bab	le ei	rror, r=?			
	a). ±0.6932σ		b). ±	0.74	-32σ							
	c). ±0.6745σ		d). ±	0.83	52σ	-						
3.	The smallest ch	ange	in n	neas	urec	l valı	ue to	wh	ich t	he ir	ıstrı	ıment will respond, is
	known as—											
	a). Precision		b).	Sens	sitiv	ity						
	c). Resolution		d).	Erro	r							
4.	The ratio of out	put s	igna	ıl or	resp	onse	e of t	he i	nstrı	ume	nt to	a change of input or
	measured value	e, is k	know	n as	s—							
	a). Precision		b).	Sens	sitiv	ity						
	c). Resolution		d).	Erro	r							
5.	The definition of Kilogram is given as—											
	a). The mass of a cubic decimeter of water at its temperature of maximum density at 4°C.											
	b). The mass of a density at 9°		oic n	anor	nete	er of	wate	er at	its t	emp	erat	ure of maximum
	•	a cub	oic ce	entin	nete	r of v	wate	r at	its to	emp	erat	ure of maximum

d). The mass of a cubic decimeter of water at its temperature of maximum

density at 1°C.

6.	Th	e device that con	iverts energy from one form to another, is known as—									
		a). Transmitter	b). Transmission Line									
		c). Transformer	d). Transducer									
	7.	A 0—150-V voltmeter has a guaranteed accuracy of 1 percent full scale reading. The voltage measured by this instrument is 83 V. Calculate the limiting error in percent.										
		a). 1.81%	b). 1.82%									
		c). 1.80%	d). 1.83%									
			in which the property of crystals is used which says that if sure is applied then there appears a small potential difference are									
		a). Piezo Electri	c transducers b). Piezo Resistive Transducers									
		c). Pyro Electric	c Transducers d). Thermistors									
		a). Length Volume b). Linear Varia c). Linear Varia d). Linear Varial A moving coil v	to transducers, give the full form of LVDT—  me Digital Transducer  ctor Diode Transformer  ble Differential Transducer  ble Differential Transformer  oltmeter has a uniform scale with 100 divisions, the full scale									
		_	, and 1/10 (one-tenth) of the scale can be estimated with fair inty. Determine the resolution of the instrument in volts.									
		a). 2V	b). 0.2V									
		c). 0.02V	d). 20V									