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		B.Teo	ch						
	End Semester Ex Transduce	xamination er, Sensor	Dec.	2014 Displa	(Sen	vices	r-V)		
Time: Three Hours}				{Max. Marks: 100					
Note:	Attempt all ques	tions, the n	narks as	signe	l to e	ach q	uestio	n is	
Q No.1 Attempt any four					5x4=20				
	What is the difference example.								
b)	A strain gauze wi to a stress of 105	e modul	us of	the e	lastici	ty of s	steel is		
	2.1.x 10 ⁶ kg/cm ² .0 applied stress Starmeasurement?	Calculate the	e % char	nge in	R of	strain	gauze	due to	
c)	1 di compania arror							error,	
d)	Classify different		easurem	ent?.					
	Explain Digital frequency measurement method?								
Q No.	2 Attempt army fo	ur		000			5	x4=20	
a)	Define work ing	principal of	LVDT						
	Explain Hay Bri			on?					

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- c) The value of the capacitance of the capacitor is specified as 1μF±5% by the manufacturer. The limits between which the value of the capacitance can be guaranteed are?
- d) Write a short note on active and passive method of pressure measurement.
- e) What is transducer? Give classification and application of transducer.

Q No.3 Attempt any two

10x2 = 20

- a) Explain Strain gauze and its types? Derive the expression for Gauss factor?
- b) What is distortion analyzer? Explain total harmonic distortion?
- c) Define working and construction of digital Ramp type of DVM. ?

Q No.4 Attempt any two

10x2 = 20

- a) Explain in detail working principal of function generator.
- b) Explain N1/2 digit display with suitable examples.
- c) Define working principal of LED and LCD.

Q No.5 Attempt any two

10x2 = 20

- a) How Lissajous pattern is used for frequency and phase measurement.
- b) Explain working and construction of dual tace oscilloscope.
- c) What are recorders? How X-Y recorders work.