16/12/16

Q.P. Code: 545500

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[Total Marks: 80

()	 Attempt four questions, question no 1 is compulsory. Assume suitable data where ever required. Answers to the questions should be grouped together. Figure to the right of question indicates full marks. 	OI!
	Explain working of strain gauge and its application in load measurement List various sensors for pressure and temperature along with their ranges	20
2. (a) I	Draw and explain working of capacitive transducer for level measurement.	10
	Draw neat block diagram of CRO and explain its functioning, comment	10
(on role of sweep in CRO. Draw and explain R-2R ladder network DAC for 3 bits input taking suitable	10
(example.	
N. C. M	Explain Kelvin's double bridge and its application in very low resistance measurement.	10
PERSONAL PROPERTY OF CO.	Explain SAR OR Flash type ADC with the help of block diagram and comment on its speed.	10
	Explain LVDT and define its application in displacement measurement.	10
5. (a)	Explain Hetrodyne type waves analyser and its applications.	10
62.4	Discuss DSO with the help of block diagram along with various modes	10
(2)	of operation also explain its applications.	
	Draw and discuss Hey Bridge and its application for measurement of	10
404	inductance.	10
(b)	Define power and energy and explain working of an energy meter.	10