Paper / Subject Code: 49604 / ELECTRONIC INSTRUMENTS & MESUREMENTS

1T01013 - S.E.(ELECTRONICS & TELE-COMMN)(Sem III) (CBSGS) / 49604 - ELECTRONIC INSTRUMENTS

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Note: i Attempt four questions, question no 1 is compulsory.	A.
ii. Assume suitable data where ever required.	3,57
iii. Answers to the questions should be grouped together.	Z 6
iv. Figure to the right of question indicates full marks.	25
Q1. Attempt any Four:	00
a) Explain working of RTD and mention its range.	6 63 10.63
b) Draw block diagram of generalised measurement system and explain its components	
c) Write note on piezoelectric transducers.	NA.
d) Significance of three and half digit display	25.
e) Explain Alternate mode and Chop mode in Dual trace oscilloscope	
Q2. a. Define Q factor and explain working of Q meter for Q factor measurement 10	
b. Draw and explain Kelvin's Double bridge and it's application in very low resistance	
measurement 10	
Q3. a) Draw neat block diagram of CRO and explain its' function and comment on role of 10	
delay line in CRO.	
b) Explain single and multichannel data acquisition system with neat diagram 10	
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Q4. a)Draw and explain Maxwell bridge and its application . 10	
b) Define power and energy and explain working of a single phase energy meter. 10	
Q5.a) Discuss DSO with the help of block diagram along with various modes of 10	
operation also explain its applications.	
b) What are various A/D converting Techniques? Explain any one in detail.	
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Q6. a) Explain Block diagram and application of wave analyzer 10	
b) Draw and explain working of Capacitive transducer for level measurement. 10	
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