Paper / Subject Code: 51004 / Electrial and Electronics Measurement

22-Nov-2019 1T00823 - S.E.(Electiral Engineering)(SEM-III)(Choice Base) / 51004 - Electrial and Electronics Measurement 76902

(3 Hours) [Total marks: 80]

Note: 1	Question No.1	is compulsory.
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- 2) Attempt any three questions out of remaining five question.
- 3) Assume suitable data if required.

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1	Solve any four	
A.	Explain galvonameter used as a detector in d.c. bridge.	5
B.	Write short note on Extension range of ammeter	5
C.	Explain resolution and sensitivity of digital meters.	5
D.	How digital meters are advantageous over analog meters?	5
E.	Differentiate between active and passive transducers.	5
2 (A)	Write short note on Production of controlling torque through spring control method.	10
(B)	Why synchroscope is required? Explain with neat diagram westone type synchroscope.	10
3 (A)	Describe construction and working principle of moving iron instrument and hence derive the torque equation.	10
(B)	Explain with block diagram ramp type digital voltmeter.	10
4 (A)	Explain a suitable bridge to measure Low Resistance.	10
(B)	Explain with phasor diagram how schering bridge can be used to measure unknown capacitor	10
5 (A)	Draw circuit diagram and explain Maxwell's bridge.	10
(B)	Explain the construction and working of thermocouple.also mention the advantages and disadvantages	10
6 (A)	Explain how Crompton's type potentiometer can be used for calibration of voltmeter.	10
(B)	Explain Anderson bridge for measuring self inductance. Draw neat circuit diagram	10

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