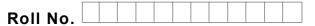


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M.Tech.(EE) (2013 Batch E-II) (Sem.-2) REAL TIME INSTRUMENTATION Subject Code : MTEE-205C M.Code : 71365

Time : 3 Hrs.

Max. Marks: 100

INSTRUCTIONS TO CANDIDATES :

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- 1. Classify different types of errors in measurement. The current passing through a resistor of $100 \pm 0.2\Omega$ is $2.00 \ A \pm 1\%$. Using the relationship $P = I^2 R$, calculate the limiting error (in % and in W) in the computed value of power dissipation.
- 2. What are different aspects of dynamic characteristics of an instrument?
- 3. Explain why signal converters are required in signal conditioning process. Discuss **any one** DAC in detail.
- 4. Define word 'telemetry'. What are different telemetry methods and associated errors?
- 5. Discuss in details about SCADA, its organization and structure.
- 6. Write a detailed note on instrumentation and conditioning of drive signals.
- 7. Explain real time control of power system digital relaying.
- 8. Write short notes on the following :
 - a) Transducers and sensors
 - b) Man machine interface

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.