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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.
 - Classify different types of errors in measurement. The current passing through a resistor of 100 ± 0.2Ω is 2.00 A ± 1%. Using the relationship P = I²R, 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?
- 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?
- Discuss in details about SCADA, its organization and structure.
- Write a detailed note on instrumentation and conditioning of drive signals.
- Explain real time control of power system digital relaying.
- 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.

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