

4E4122

Roll No. _____

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4E4122**B.Tech. IV Semester (Main/Back) Examination, June/July - 2015****Electronics Instrumentation & Control Engg.****4EI3A Electrical Measurement****Common for EE, EX & EI****Time : 3 Hours****Maximum Marks : 80****Min. Passing Marks : 26****Instructions to Candidates:**

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Unit - I

1. a) Explain why PMMC instruments are the most widely used instruments. Discuss their advantage and disadvantage. (6)
- b) A moving coil instrument has at normal temperature a resistance of 10Ω and a current of 45 mA gives full scale deflection. If its resistance rises to 10.2Ω due to temperature changes, calculate the reading when a current of 2kA is measured by means of a $0.225 \times 10^{-3} \text{ A}$ shunt of const resistance. What is the percentage error. (10)

OR

1. a) Explain why electro-dynamometer type of instruments can be used both on a.c. and d.c? Why are these instruments used as transfer instruments. (6)
- b) The inductance of a certain moving iron ammeter is $(8 + 4\theta - \frac{1}{2}\theta^2) \mu\text{H}$, where θ is deflection in radian from the zero position. The control spring torque is $12 \mu\text{N-m/rad}$. Calculate the scale positions in radian for current 1,2,3,4 and 5A and discuss the scale shape obtained. (10)

Unit - II

2. a) Explain comparison between CTs and PTs. (6)

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JR Anderson



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