

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 $0.225 \times 10^{-3} A$ 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 $(8 + 4\theta - \frac{1}{2}\theta^2) \mu H$, where θ is deflection in radian from the zero position. The control spring torque is $12 \mu N - m / rad$. 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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Engineering ,1963 **Electrical Measurements a Laboratory Manual** Henry S. (Henry Smith) Carhart,2012-01

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addressed in individual chapters include the analysis of continuous current circuits sources of measurement uncertainty and their combined effect direct current measurements analysis of alternating current circuits special circuits including resonant circuits frequency filters and impedance matching networks alternating current measurements analog and digital oscilloscopes non sinusoidal waveforms and circuit excitation by pulses distributed parameter components and transmission lines Each chapter is equipped with a number of problems A special appendix describes a series of nine experiments in each case providing a plan of action for students and guidance for tutors to assist in the preparation and illustration of the experiment

Electronic Measurements Farzin Asadi, Kei Eguchi, 2022-05-31 Measurement is the process of obtaining the magnitude of a quantity relative to an agreed standard Electronic measurement which is the subject of this book is the measurement of electronic quantities like voltage current resistance inductance and capacitance to name a few This book provides practical information concerning the techniques in electronic measurements and knowledge on how to use the electronic measuring instruments appropriately The book is composed of five chapters Chapter 1 focuses on digital multimeters You will learn how to use it for measurement of AC DC voltages currents resistance connection test and diode forward voltage drop test Chapter 2 focuses on power supplies Although power supplies are not a measurement device they have an undeniable role in many measurements So being able to use power supplies correctly is quite important Chapter 3 focuses on function generators Like the power supplies the function generators are not a measurement device in the first look However they play a very important role in many electronic measurements So being able to use a function generator correctly is an important skill any technician or engineer needs Chapter 4 focuses on oscilloscopes These days digital oscilloscopes are the most commonly used tool in both industry and university Because of this this chapter focuses on digital oscilloscopes not on the analog ones which are almost obsolete Chapter 5 focuses on drawing graph of data you obtained from your measurement Visualization of data is very important in practical works This chapter show how you can use MATLAB for drawing the graph of your measurements This book could be used a laboratory supplement for students of electrical mechanical mechatronics engineering for technicians in the field of electrical electronics engineering and for anyone who is interested to make electronic circuits

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