

THIRD SEMESTER B.TECH DEGREE EXAMINATION

(2013 Scheme)

13.304 BASIC INSTRUMENTATION (A)

MODEL QUESTION PAPER

Time: 3 Hrs.

Max. Marks: 100

Part A

Answer all questions. Each question carries 2 marks.

1. Differentiate between bridge sensitivity and current sensitivity in a Wheatstone's bridge
2. Distinguish between Q-factor of an inductor and D-factor of a capacitor.
3. Explain how LVDT is used for the measurement of displacement.
4. Draw a bridge circuit for the measurement of unknown inductance suitable for inductors with low Q-factor.
5. Draw the five standard schematic symbols for synchros and identify all connections.
6. State the advantages of using 400 Hz synchros over 50 Hz synchros.
7. What is a frequency synthesizer? Give two applications
8. Define deflection factor and sensitivity for a CRT.
9. What are active probes to feed signals to Oscilloscopes?
10. Sketch the CRO display when the sine waves of equal amplitudes fed to the vertical and horizontal inputs are in phase, anti phase and in phase quadrature.

(2 Marks × 10 = 20 Marks)

Part B

Answer any one full question from each Module. Each full question carries 20 Marks

MODULE - I

11. (a) Draw a relevant bridge circuit to measure the values of equivalent circuit elements (L_p and R_p) of an inductor. Derive expressions for them.
(b) A Hay bridge operating at a supply frequency of 100 kHz is balanced when the components are $C_1 = 0.1 \mu\text{F}$, $R_1 = 1.26 \text{ k}\Omega$, $R_2 = 75 \Omega$ and $R_4 = 500 \Omega$. Calculate the inductance and resistance of the measured inductor. Also determine the Q-factor of the coil.

OR

12. (a) Draw the circuit diagram of Wheatstone bridge and derive the expression for bridge sensitivity.
(b) A Maxwell inductance bridge uses a standard capacitor of $C_2 = 0.1 \mu\text{F}$ and operates at a supply frequency of 100 Hz. It is balanced when $R_1 = 1.26 \text{ k}\Omega$, $R_2 = 470 \Omega$ and $R_4 =$

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Jicheng Xie



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Table of Contents Basic Instrumentation Question Papers

1. Understanding the eBook Basic Instrumentation Question Papers
 - The Rise of Digital Reading Basic Instrumentation Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Instrumentation Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Basic Instrumentation Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Instrumentation Question Papers
 - Personalized Recommendations
 - Basic Instrumentation Question Papers User Reviews and Ratings
 - Basic Instrumentation Question Papers and Bestseller Lists
5. Accessing Basic Instrumentation Question Papers Free and Paid eBooks
 - Basic Instrumentation Question Papers Public Domain eBooks
 - Basic Instrumentation Question Papers eBook Subscription Services
 - Basic Instrumentation Question Papers Budget-Friendly Options

6. Navigating Basic Instrumentation Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Basic Instrumentation Question Papers Compatibility with Devices
 - Basic Instrumentation Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basic Instrumentation Question Papers
 - Highlighting and Note-Taking Basic Instrumentation Question Papers
 - Interactive Elements Basic Instrumentation Question Papers
8. Staying Engaged with Basic Instrumentation Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basic Instrumentation Question Papers
9. Balancing eBooks and Physical Books Basic Instrumentation Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basic Instrumentation Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Basic Instrumentation Question Papers
 - Setting Reading Goals Basic Instrumentation Question Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Basic Instrumentation Question Papers
 - Fact-Checking eBook Content of Basic Instrumentation Question Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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