

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 \times 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 $R_4 =$

Basic Instrumentation Question Papers

Roman Wölfel



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Basic Electronics Rakesh Kumar Garg, Ashish Dixit, Pavan Yadav, 2008 **Instrument Practice** ,1967 *CUET PG Forensic Science Chapterwise Question Bank for 2026 Exam | Includes Previous Years (2022-2025) Exam Paper* Nodia ,2026-01-30 *CUET PG Forensic Science Chapterwise Question Bank for 2026 Exam* is a concise and exam focused practice book designed as per the latest CUET PG Forensic Science syllabus It features previous years question papers 2022 2025 arranged in a chapterwise format for structured learning and quick revision This book helps students understand exam patterns strengthen core forensic concepts and improve accuracy with targeted practice An ideal resource for self study and revision it supports effective preparation for the CUET PG Forensic Science 2026 exam *Question Bank of Biochemistry* Rashmi Atul Joshi, 2009 *Biochemistry Is The Branch Of Science Which Deals With The Bimolecular I E Carbohydrates Proteins Nucleic Acids Etc The Subject Is Highly Advanced And Involves Tremendous Biochemical Principles And Techniques Which Are Revised Every Day The Question Bank Has Been Written To Make Biochemistry Easy For Students The Answers Are Brief To The Point And Informative The Book Starts With Biophysics And Instrumentation Which Covers Principles Working Uses Of The Instruments Frequently Encountered In The Biochemistry Laboratory Various Questions Are Provided For Carbohydrates Lipids Nucleic Acids Enzymes Etc Special Efforts Have Been Put To Write Questions On Hormones Diet And Nutrition And Organ Function Tests This Book Will Be Useful For Students Of Various Disciplines Including Medical Dental Homoeopathy Graduation Courses Of Different Indian Universities Also* **Instrumentation and Automation in the Paper, Rubber, Plastics, and Polymerisation Industries** A. van Cauwenberghe, 1981 *Covers pulp plastics paper web extruders pulp processes polymerisation computers human engineering paper recycling drives process production* CUET PG Disaster Studies Chapterwise Question Bank for 2026 Exam | Includes Previous Years (2022-2025) Exam Paper Nodia, 2025-12-24 *CUET PG Disaster Studies Chapter wise Question Bank strictly aligned with the latest NTA syllabus and exam pattern Offers comprehensive chapter wise coverage including all question types for deep conceptual clarity and exam level practice Includes fully solved CUET PG Disaster Studies papers 2022 2025 to analyze trends and scoring focus ideal for high rank preparation and quick revision* **2025-26 RRB ALP Stage-II Solved Papers** YCT Expert Team , 2025 26 RRB ALP Stage II Solved Papers 160 295 E This book contains 15 sets of the previous year solved papers *Standard Instrumentation Questions and Answers: Measuring systems* Stephen Michael Elonka, Alonzo Ritter Parsons, 1962 **Southern Pulp and Paper** ,1985 *Instrumentation in the Pulp and Paper Industry* ,1972 Instrumentation Technology ,1971 The Musical Standard ,1880 **Encyclopedia of Instrumentation for Industrial Hygiene** University of Michigan. Institute of Industrial Health, 1956 **Journal of the Royal Society of Arts** ,1880 *Illinois Technograph* ,1956 *Papers and Addresses Presented at the Annual Meeting of the Technical Association of the Pulp and Paper Industry* ,1980 Oil & Gas Journal ,1947 **Proceedings of the Parliament of South Australia** South Australia.

Parliament,1902 **Proceedings of the Instrument Society of America** ,1963 **Advances in Instrumentation** ,1973
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