

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

**N Noddings**



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