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| **S NO** | **QUESTION** | **KNOWLEDGE**  **LEVEL** | **CO** |
| **UNIT I** | | | |
| **1** | Explain about the simple measuring system with the help of block diagram. | **K2** | **CO1** |
| **2** | Describe the process of obtaining discrete time signal from continuous time signal. Draw the necessary plots. | **K2** | **CO1** |
| **3** | Explain the errors in the measurements by giving suitable examples. How they are usually minimized? | **K2** | **CO1** |
| **UNIT 2** | | | |
| 1 | Sketch the operation of LVDT and explain briefly. | **K3** | **CO2** |
| 2 | Define Piezo-electric effect? Explain in detail about piezo -electric transducer. | **K1** | **CO2** |
| 3 | Discuss in detail the operation of synchros. | **K2** | **CO2** |
| **UNIT 3** | | | |
| **1** | Explain the operating principle of successive approximation type DVM? | **K2** | **CO3** |
| **2** | With a neat block diagram explain the microprocessor based ramp type digital voltmeter? | **K3** | **CO3** |
| **3** | Explain with the help of a neat circuit diagram the working of a dual slope integrating type DVM? | **K2** | **CO3** |
| **UNIT 4** | | | |
| **1** | Describe in details the vertical amplifier used in a CRO and its applications. | **K2** | **CO3** |
| **2** | Describe how the phase angle measurements can be made  with the use of a CRO. | **K2** | **CO3** |
| **3** | Compare the Electrostatic and Magnetic deflection methods? | **K2** | **CO3** |
| **UNIT 5** | | | |
| **1** | Demonstrate the frequency selective wave analyzer? | **K3** | **CO2** |
| **2** | State and explain various applications of spectrum analyzer? | **K1** | **CO2** |
| **3** | Sketch the neat block diagram; describe the operation of a wave analyzer. What are its application areas? | **K3** | **CO2** |
| **UNIT 6** | | | |
| **1** | Define pressure. Explain different methods of pressure measurement? | **K1** | **CO4** |
| **2** | Distinguish between a.c tachogenerator and d.c tachogenerator?. | **K2** | **CO4** |
| **3** | Describe the working of bourdon tube and bellow type gauge for measurement of absolute pressure? | **K1** | **CO4** |