





**PART C (6 x 5 = 30 Marks)**

21. Explain any two dynamic terms and characteristics of instruments. [K<sub>2</sub>]
22. Explain the term reliability of instruments. [K<sub>2</sub>]
23. Discuss on general data acquisition system with the help of a block diagram. [K<sub>2</sub>]
24. Compare the temperature measurement using RTD and thermocouple. [K<sub>3</sub>]
25. Briefly explain the measurement of heat flux using foil type heat flux gage [K<sub>2</sub>]
26. Write short notes on measurement using Shadowgraph. [K<sub>2</sub>]

**PART D (4 x 10 = 40 Marks)**

27. Enumerate various sources of errors encountered in a measurement system with examples. [K<sub>2</sub>]
28. Explain in detail the working of a Laser Doppler Anemometer with the help of a neat sketch. [K<sub>2</sub>]
29. Compare fluid flow measurement using orifice meter and venturimeter and state their relative advantages and disadvantages. [K<sub>2</sub>]
30. Describe the construction and working of a Gas Chromatograph with the help of a neat sketch. [K<sub>2</sub>]

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