

SECTION-B

2. What is a transducer? Discuss the basic requirements of a transducer in detail.
3. Derive the expression for the closed loop gain of an operational amplifier used in the inverting and non-inverting modes. Describe the assumption made, if any.
4. Describe the different types of channels used for telemetry. Explain their advantages and disadvantages.
5. Discuss the various analog and digital display methods in brief.
6. What is the need of data acquisition system? Discuss Multi channel data acquisition system.

SECTION-C

7. Describe the construction and principle of working of capacitive and photoelectric transducers.
8.
 - a) Describe the construction and working of a sample and hold circuit.
 - b) Explain the time division multiplexing and its characteristics in detail.
9. Explain the following :
 - a) Instrumentation amplifier
 - b) Digital Voltmeter

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