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School of University Polytechnic

Diploma in Electrical Engineering
Mid Term Examination - May 2024

Duration : 90 Minutes
Max Marks : 50

Sem IV - N1DI402B - Electrical and Electronics InstrumentationGeneral Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) Explain the difference between sensor and transducer. K2 (2)
- 2) Define the term 'sensitivity' of the transducer. K1 (3)
- 3) Explain the working of any transducer of your choice with diagram. K2 (4)
- 4) Explain the significance of liquid level detector. Give example. K2 (6)
- 5) Illustrate the classification of the transducers based on the energy source requirement with example. K3 (6)
- 6) Illustrate the working principle of an electrical method for level detection and discuss its suitability for different industrial applications. K3 (9)
- 7) Analyze the concept of electrical transducer. Also explain the advantages and disadvantages of electrical transducers. K4 (8)
- 8) Analyze the difference between electrical and capacitance transducers. K4 (12)

OR

Analyze the various methods employed in vibration and shock measurement, comparing their effectiveness in different scenarios and industries. K4 (12)