978

Register No.:	

November 2022

<u>Time - Three hours</u> (Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A each question carries 3 marks.
 - 2. Answer all the questions either (A) or (B) in Part-B each question carries 14 marks.]

PART - A

- 1. Compare spring control and gravity control.
- 2. What is meant by air friction damping?
- 3. State the advantages and disadvantages of PMMC instruments.
- 4. State the advantages and disadvantages of moving iron instruments.
- 5. Write notes on power measurements in AC circuits.
- 6. Give the advantages of Induction type energy meter.
- 7. Write about Maxwell's bridges.
- 8. Write about the circuit of Schering bridge.
- 9. List out the types of transducers.
- 10. What is piezo-resistive effect? Which transducer works under this principle?

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PART - B

11. (a) What is measurement? Explain the functions of measurement systems.

(Or)

- (b) Describe the applications of measurement systems.
- 12. (a) Draw and explain the construction and working of dynamometer type instruments.

(Or)

- (b) Draw and explain the construction and working of shaded pole instruments.
- 13. (a) Describe the watt meters in power measurement.

- (b) Describe Electrodynamometer type wattmeter.
- 14. (a) Explain Anderson bridge with the circuit diagram.

(Or)

- (b) Explain Schering bridge method to find unknown capacitance with circuit.
- 15. (a) Describe with the neat diagram about the construction and working principle of Capacitive Transducer.

(Or)

(b) Describe with the neat diagram about the construction and working principle of Inductive Transducer.
