

535

Register No.:

April 2024

Time – Three hours
(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. Define Accuracy.
2. Write short notes on magnetic effects and thermal effects of instruments.
3. State the advantages of dynamometer type instruments.
4. Write the working of CT.
5. Write notes on power measurements in AC circuits.
6. What is digital frequency meter?
7. Draw Maxwell's bridge.
8. Draw the circuit of Schering bridge.
9. What is the application of LVDT?
10. Write short notes on thermistor.

[Turn over.....

PART – B

11. (a) Explain the terms True value, Precision, Static Error, Static error correction and Instruments Efficiency.

(Or)

- (b) What is measurement? Explain the functions of measurement systems.

12. (a) Draw and explain the construction and working of moving iron instruments.

(Or)

- (b) Explain the measurement of high resistance using Megger with a neat sketch.

13. (a) Describe the Wattmeters in power measurement.

(Or)

- (b) Describe Electro dynamometer type wattmeter.

14. (a) Explain Anderson bridge with the circuit diagram.

(Or)

- (b) Draw the block diagram of a general purpose CRO and explain.

15. (a) Describe with the neat diagram about the construction and working principle of LVDT.

(Or)

- (b) Explain the construction and working principle of Photovoltaic Transducer with neat diagram.
