

October 2023

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. What are the functions of measurement system?
3. Write about materials.
4. State various testing methods of PT.
5. Differentiate power and energy.
6. What is digital frequency meter?
7. Draw the circuit of Anderson bridge.
8. Write short notes on Voltage measurement using CRO.
9. What are the types of thermistor?
10. Write about strain gauge.

PART - B

11. (a) Describe the classification of Instruments.  
(Or)  
(b) Explain the three types of operating forces of integrating instruments.
12. (a) Draw and explain the construction and working of moving iron instruments.  
(Or)  
(b) Explain the measurement of medium resistance using Wheatstone Bridge with neat sketch.
13. (a) Explain the construction and operation of single phase energy meter.  
(Or)  
(b) Describe Maximum Demand Indicator with neat Diagram.
14. (a) Draw the block diagram of a general purpose CRO and explain the various sections.  
(Or)  
(b) Describe the High voltage Schering Bridge with neat diagram.
15. (a) Describe with the neat diagram about the construction and working principle of Resistive Transducer.  
(Or)  
(b) Explain the types of Transducer and give its application.

-----