

November 2022

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 voltage. What is the unit of voltage?
2. Define current. What is the unit of current?
3. What is power factor?
4. Define average value in AC circuit.
5. What is the function of transformer?
6. Define the efficiency of transformer.
7. Classify transducer.
8. What is the principle of strain gauge?
9. Define Calibration.
10. Write short notes on thermo couple.

[Turn over.....

PART - B

11. (a) Explain Thevenin's theorem with example.
(Or)
(b) Explain maximum power transfer theorem with example.
12. (a) Analyze RLC series circuit and RC series circuit.
(Or)
(b) Analyze RL parallel circuit and RC parallel circuit.
13. (a) Explain construction, and workers principle of transformer.
(Or)
(b) With a neat circuit diagram explain the construction and principle of operation of DC Generator.
14. (a) Draw the block diagram of CRO and explain.
(Or)
(b) Draw the block diagram of function generator and explain.
15. (a) Explain the operation of PMMC instrument.
(Or)
(b) Explain the construction of moving iron instrument.
