



C14-EE-304

4246

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2021

DEEE - THIRD SEMESTER EXAMINATION

ELECTRICAL AND ELECTRONIC MEASURING INSTRUMENTS

Time : 3 hours]

[Total Marks : 80

PART—A

4×5=20

- Instructions :** (1) Answer *any* **five** questions.
(2) Each question carries **four** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. List any four types of indicating measuring instruments.
2. What is an absolute measuring instrument?
3. State the advantages of moving coil measuring instruments.
4. List the common errors occur in moving iron measuring instruments.
5. Define Accuracy.
6. List the applications of Potentiometer.
7. List the applications of Sensors.
8. Draw the circuit diagram of rectifier type voltmeter.
9. List the specifications of digital voltmeter.
10. List the advantages and disadvantages of LVDT.

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PART—B

15×4=60

- Instructions :** (1) Answer *any* **four** questions.
(2) Each question carries **fifteen** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Explain the different torques present in measuring instruments.
12. Explain the working of repulsion type moving iron measuring instrument.
13. Explain the working of dynamometer type measuring instrument.
14. Compare moving coil measuring instrument with moving iron measuring instrument.
15. Explain the construction of induction type single phase energymeter.
16. Explain the working of basic Ohm-meter.
17. Explain the measurement of temperature using thermocouple.
18. Explain the working of three phase digital energymeter.

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