



C09-EE-305

3243

BOARD DIPLOMA EXAMINATION, (C-09)

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. Draw the block diagram of digital multimeter.

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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 controlling torque in measuring instruments.
12. Explain the working of anyone type of moving iron measuring instrument.
13. Explain the two wattmeter method of measuring power in three phase circuit.
14. Explain the working of dynamometer type wattmeter.
15. Explain the method of extending the range of moving coil ammeter.
16. Explain the construction of megger.
17. Explain thermocouple.
18. Explain the working of three phase digital energymeter.

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