



C14-EC-303

4239

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2021

DECE - THIRD SEMESTER EXAMINATION

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 the characteristics of ideal ammeter.
2. Give the principle of rectifier type voltmeter.
3. List the advantages of digital instruments over analogue instruments.
4. List the specifications of digital frequency meter.
5. Mention the advantages of triggered sweep.
6. List different types of probes used in CRO.
7. Draw the block diagram of AFO.
8. List the applications of RF signal generator.
9. Define distortion factor.
10. Define stray capacitance of a coil.

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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 working of FET input voltmeter.
12. Explain the inductance measurement using Maxwells bridge.
13. Explain the working of digital LCR meter with block diagram.
14. Explain the procedure for measurement of voltage, time interval, frequency using CRO.
15. Draw the block diagram of general purpose CRO and explain.
16. Explain the working of function generator with block diagram.
17. Explain the working of AF power meter.
18. Explain the working of Q-meter with a block diagram.

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