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C16-AEI-304

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BOARD DIPLOMA EXAMINATION, (C-16)

JUNE/JULY—2022

DAEIE - THIRD SEMESTER EXAMINATION

ELECTRONIC MEASURING INSTRUMENTS

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

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

1. List the different torques needed for driving analog instruments.
2. Define sensitivity of voltmeter.
3. State the use of meggar for insulation measurements.
4. List any three specifications of digital voltmeters.
5. List any three specifications of digital LCR meter.
6. List the conditions for stationary waveforms in CRO.
7. List any three front panel controls of CRO and state their function.
8. Write the procedure for measurement of DC voltage using CRO.
9. List any three applications of AF oscillator.
10. State the necessity of plotter and recorders.

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PART—B

10×5=50

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

11. Explain the construction and principle of operation of series type ohmmeter.
12. Explain the capacitance measurement using severing bridge.
13. Explain the working of digital multimeter with block diagram.
14. Explain the working of digital frequency meter with block diagram.
15. Explain the block diagram of CRT.
16. Explain the principle of operation of digital oscilloscope with a block diagram.
17. Explain the working of RF signal generator with block diagram.
18. Explain the working of Q meter with diagram.

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