



C16-AEI-304

6216

BOARD DIPLOMA EXAMINATION, (C-16)

OCT/NOV—2018

DAEI—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 different torques needed for driving analog instruments.
2. State the principle of differential voltmeter.
3. State the use of meggar for insulation measurements.
4. List the specifications of digital voltmeter.
5. Draw the diagram of digital LCR meter.
6. List the conditions for stationary waveforms.
7. List any three applications of CRO.
8. Draw the dual trace oscilloscope.
9. State the importance of shielding in RF generators.
10. List different types of recorder.

PART—B

10×5=50

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

11. Explain the working of FET input voltmeter with necessary circuit (AC/DC).
12. Explain the construction and principle of operation of series type ohmmeter.
13. Explain the working of digital multimeter with block diagram.
14. Explain the working of successive approximation type digital voltmeter with block diagram.
15. Explain the principle of operation of digital storage oscilloscope with a block diagram.
16. Explain the block diagram of CRT.
17. Explain the working of function generator with block diagram.
18. Explain the working of Q-meter with block diagram.
