

C16-AEI-304

6216

BOARD DIPLOMA EXAMINATION, (C-16) OCT/NOV-2017

DAEI—THIRD SEMESTER EXAMINATION

ELECTRONIC MEASURAING INSTRUMENTS

Time: 3 hours]

Total Marks: 80

PART—A

 $3 \times 10 = 30$

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. Classify the analog measuring instruments.
- 2. State the use of meggar for insulation measurements.
- 3. State loading effect of voltmeter.
- **4.** List the advantages of digital instruments over analog instruments.
- 5. List the specifications of digital LCR meter.
- 6. Write the procedure for measurement of frequency using CRO.
- 7. List the important front panel controls of CRO.
- 8. List the applications of CRO.
- 9. State the importance of shielding in RF generators.
- **10.** Define Q-meter.

- **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 constructions and principle of operation of PMMC instrument with diagram.
- 12. Explain the inductance measurement using maxwell's bridge with diagram.
- 13. Explain the working of successive approximation type digital voltmeters with block diagram.
- 14. Explain the working of digital frequency meter with a block diagram.
- 15. Explain triggered sweep with necessary circuit, and mention its advantages.
- 16. Explain the basic priniple of operation of storage oscilloscope with a block diagram.
- 17. Explain the working of function generator with block diagram.
- **18.** Explain the working of logic analyser with block diagram.

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