



C09-AEI-402

3412

BOARD DIPLOMA EXAMINATION, (C-09)
OCT/NOV—2015
DAEIE—FOURTH 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) Answer should be brief and straight to the point and shall not exceed *five* simple sentences.

1. List any six types of analog instruments.
2. List any three applications of wheatstone bridge.
3. Classify bridges and list any two applications.
4. List the specifications of digital frequency meter.
5. List the various types of parameters measured with multimeter.
6. List the conditions for stationary waveform in a CRO.
7. List any three specifications of CRO.
8. Draw the block diagram of cathode-ray oscilloscope.

* 9. State the importance of shielding in RF generator.

10. State the necessity of plotters.

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 rectifier-type voltmeter with necessary circuit diagram.

12. Explain the working of shunt-type ohmmeter with a circuit diagram.

13. Explain the working of dual slope digital voltmeter with diagram.

14. Explain the working of digital LCR meter with a block diagram.

15. Explain basic principle of storage oscilloscope with circuit diagram.

16. Explain triggered sweep with necessary circuit and mention its advantages.

* 17. Explain the working of function generator with block diagram.

18. Explain the working of Q-meter with a block diagram.
