

6216

BOARD DIPLOMA EXAMINATIONS

OCT/NOV-2019

DAEI - THIRD SEMESTER

ELECTRONIC MEASURING INSTRUMENTS

Time: 3 hours

Max. Marks: 80

PART – A

3 X 10 = 30

Instructions:

1. Answer **all** questions.
2. Each question carries **Three** Marks.
3. Answer should be brief and straight to the point and should not exceed five simple sentences.

1. Give the classification of bridge circuits.
2. State the need for high input impedance for a voltmeter.
3. State the principle of operation of Moving Iron instrument.
4. List the advantages of digital instruments over analog instruments.
5. List the specifications of Digital LCR meter.
6. State the necessity of time base generator in an oscilloscope.
7. List the specifications of CRO.
8. Write the procedure for measurement of AC voltage using CRO.
9. List any three applications of RF signal generator.
10. State the necessity of plotter and recorders.

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PART – B

5 X 10 = 50

- Instructions:**
1. Answer any **Five** questions
 2. Each question carries **TEN** Marks.
 3. Answer should be comprehensive and Criteria for Valuation is the content but not the length of the answer.

11. Explain the principle and working of rectifier type voltmeter with block diagram.
12. Explain the resistance measurement using Wheatstone bridge with block diagram.
13. Explain the working of Digital Multi meter with block diagram.
14. Explain the working of digital frequency meter with block diagram.
15. Sketch CRT and Explain the function of each part.
16. Explain the Dual trace oscilloscope with a block diagram.
17. Explain the working of AF Oscillator (sine & square) with block diagram.
18. Explain the working of Q mete with diagram.

A.A.N.M & V.V.R.S.R. POLYTECHNIC, GUDIAVALLEHU, KRISHNA

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