



\*3471\*

C09-EC-405

**3471**

**BOARD DIPLOMA EXAMINATION, (C-09)  
OCTOBER/NOVEMBER-2018  
DECE - FOURTH SEMESTER EXAMINATION**

**ELECTRONIC MEASURING INSTRUMENTS**

Time :3 Hours ]

[ Total Marks: 80

---

**PART-A**

3X10=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. Draw the neat block diagram of Distortion Factor meter.
2. Write the principle of PMMC instrument.
3. List the different types of bridge circuits.
4. What are the basic building blocks of Digital Instrument?
5. Draw the neat block diagram of Logic Analyzer.
6. Draw the neat block diagram of Digital Multimeter.
7. What are various types of Probes used in Oscilloscopes.
8. State the necessity of Recorders & Plotters.
9. What is Bolometer & list its various types.
10. List the front panel controls of AF Oscillator.

## PART-B

10X5=50

**Instructions** :

1. Answer any **Five** questions.
2. Each question carries **ten** marks.
3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer

11. Explain the construction and working of shunt type ohmmeter.
12. Explain the working of Differential Voltmeter with a neat sketch.
13. Explain the working of digital IC tester with a neat block diagram.
14. Explain the working of Digital frequency meter with neat block diagram.
15. Explain the working of digital frequency meter with neat block diagram.
16. Explain the method of conversion of single trace CRO into dual trace CRO with a neat block diagram.
17. Explain the working of RF signal generator with neat block diagram.
18. Draw the block diagram of a Function generator & Explain its working.

\*

\*\*\*\*\*

\*