



C-09-EC-405

3471

BOARD DIPLOMA EXAMINATION, (C-09)
MARCH / APRIL - 2019
DECE - IV 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.

- 1 Draw the neat sketch of PMMC meter.
- 2 Explain meter loading
- 3 Draw the neat block diagram of Distortion Factor meter.
- 4 What is accuracy of a Frequency meter.
- 5 Draw the neat block diagram of Digital Multimeter.
- 6 Draw the block diagram of digital I.C Tester.
- 7 Draw the block diagram of general purpose CRO.
- 8 List different types of Probes used in Oscilloscopes.
- 9 Draw the basic block diagram of RF signal generator.
- 10 List various types of Signal Generators with reference to frequency.

PART - B

10×5=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 Draw the Wheat stone bridge circuit and explain the resistance measurement using Wheatstone bridge.
- 12 Explain the construction and working of a series type Ohmmeter.
- 13 Explain the working of successive approximation type DVM with a neat block diagram.
- 14 Explain the working of Logic Analyzer with neat block diagram.
- 15 Explain the principle of sampling oscilloscope with neat block diagram and necessary waveforms.
- 16 Explain the construction & working of X-Y recorder with neat Block diagram.
- 17 Draw the block diagram of a Function generator & explain its working.
- 18 Explain the working of Bolometer type RF power meter with a schematic diagram.
