C14-AEI-**305**

4218

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH /APRIL-2019

DAEIE - THIRD SEMESTER EXAMINATION

ELECTRONIC MEASURING INSTRUMENTS

Time: 3 Hours] [Max. Marks : 80

PART -A **3x10=30M**

Instructions: 1) Answer **all** the questions. Each question carries **three** marks.
2) 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 the balancing conditions of bridges.

4) List any three advantages of digital instruments over analog instruments.

5) List any three specifications of digital frequency meter.

6) State the condition for flicker free waveform in CRO.

7) List any three important front panel controls of CRO.

8) List any three specifications of CRO.

9) List any three applications of RF generators.

10) State the necessity of plotter.

PART-B 5x10=50M

Instructions: 1) Answer any **five** questions. Each question carries **ten** marks.

2) Answers should be comprehensive and the critertion for valuation is the content but not the length of answer.

11) Explain the working of PMMC meter with diagram.

12) a) Explain the inductance measurement usinng Maxwell bridge with diagram.

b) Draw and explain the working of rectifier type voltmeter.

13) Explain the working of successive approximation type digital voltmeter with block digaram.

14) (a) Explian the working of digital frequency meter with diagarm.

(b) Explain the working of Digital Multimeter with block diagram.

15) Draw the block diagram of CRO and describe the function of each block.

16) Explain the basic principle of storage oscilloscope with a block diagram.

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

18) Explain the working of XY Recorder.

* * *