## 4246

## **BOARD DIPLOMA EXAMINATION, (C-14)** JUNE-2019 **DEEE - THIRD SEMESTER EXAMINATION**

## **ELECTRICAL & ELECTRONIC MEASURING INSTRUMENTS**

## PART-A

10x3 = 30M

- **Instructions:** 1) Answer all the questions. Each question carries three
  - 2) Answers should be brief and straight to the point and
- 1)
- State any three advantages of dynamo meter type Instruments.

- Define Transducer and write any two types of Transducers.

- 10) Draw the block diagram of Rectifier type Voltmeter.

5x10=50M

- **Instructions:** 1) Answer any **five** questions. Each question carries **ten** marks.
  - 2) Answers should be comprehensive and the criteria for valuation is the content but not the length of answer.
- 11) (a) State the classification of Measuring Instruments on the basis of its constructions.
  - (b) Draw the block diagram of 1- $\Phi$  digital Energy Meter.
- 12) Explain construction and working principle of Attraction type MI Instrument with a neat sketch.
- 13) Compare MC and MI instruments in any ten aspects.
- 14) (a) State the errors in MI Instruments.

/4246

- (b) List the advantages and disadvantages of MI Instruments.
- 15) (a) Explain about the Extension of range of Ammeter.
  - (b) A PMMC Instrument gives a reading of 25mA when the potential difference across its terminals is 75mV. Calculate the shunt Resistance for full-scale deflection of 50A.
- 16) Explain measurement of Earth Resistance by using Megger.
- 17) Explain the working of LVDT and write advantages and disadvantages.
- 18) Explain the working of Digital frequency meter with block diagram.

\* \* \*