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TED (15) - 3032	*		Reg. No
(REVISION — 2015)			Signature
DIPLOMA	EXAMINATION	IN	ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — APRIL 2018			

## ELECTRICAL MEASURING INSTRUMENTS

[Time: 3 hours

(Maximum marks: 100)

## PART — A

(Maximum marks: 10)

Marks

- I Answer all questions in one or two sentences. Each question carries 2 marks.
  - 1. List out necessary torques of an indicating instrument.
  - 2. State the functions of controlling torque.
  - 3. Enumerate the reasons for creeping error in induction type energy meters.
  - 4. Differentiate low, medium and high resistances.
  - 5. Enumerate the functions of synchroscope.

 $(5 \times 2 = 10)$ 

## PART — B

(Maximum marks: 30)

- II Answer any five of the following questions. Each question carries 6 marks.
  - 1. Distinguish between moving coil instruments and moving iron instruments.
  - 2. Classify measuring instruments.
  - 3. Draw the connection diagram of three phase two element energy meter.
  - 4. Explain the terms calibration and Phantom loading.
  - 5. Draw and mark the main parts of megger.
  - 6. Describe the Varley Loop method to find earth fault of cable.
  - 7. Draw the block diagram of CRO.

 $(5 \times 6 = 30)$