TED (15) –	5032
(REVIS	ON—	2015)

Reg. No	
Signature	

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2018

POWER ELECTRONICS

[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. Draw the symbols of UJT, IGBT.
 - 2. Write the two applications of SCR.
 - 3. What do you mean by phase control.
 - 4. State two methods of speed control of three phase induction motor.
 - 5. Mention the two advantages of SMPS.

 $(5 \times 2 = 10)$

PART - B

(Maximum marks: 30)

- II Answer any five of the following questions. Each question carries 6 marks.
 - 1. Explain the characteristics of SCR.
 - 2. Describe the single phase half wave converter with R load.
 - 3. Explain the series inverter.
 - 4. Draw circuit and explain the dual converter dc drive.
 - 5. Explain the stator voltage control of three phase induction motor.
 - 6. Describe the off line UPS.
 - 7. Draw and explain block diagram of SMPS.

 $(5 \times 6 = 30)$

[P.T.O.

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