

Total Pages—3 V—Sem/ELECT/2018(S) (New)

(2)

POWER ELECTRONICS AND DRIVES

(Code : EET-502)

Full Marks : 70

Time : 3 hours

Answer any five questions

Figures in the right-hand margin indicate marks

1. (a) What is rise time ? 2
(b) Explain Gate characteristics of Thyristor. 5
(c) Explain the V-I characteristic of Thyristor. 7
2. (a) What do you mean by gate triggering ? 2
(b) Explain Gate protection of Thyristor. 5
(c) Explain single phase full wave mid-point converter with resistive load. 7
3. (a) What is the advantage of free wheeling diode ? 2

(Turn Over)

- (b) Explain single phase half bridge inverter with resistive load. 5
- (c) Explain single phase capacitor commutated Current Source Inverter with resistive load. 7
4. (a) What is the use of chopper ? 2
(b) Explain single phase half wave A.C. regulator. 5
(c) Explain full wave bridge converter with resistive load. <https://www.sctevtonline.com> 7
5. (a) What is the use of cyclo converter ? 2
(b) Explain speed control of Induction Motor by Stator Voltage Control. 5
(c) Explain Type-D Chopper. 7
6. (a) What is line commutation of thyristor ? 2
(b) Explain single phase half controlled bridge converter with R-L load. 5
(c) Explain single phase semiconverter DC drive. 7

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(Continued)

(3)

7. (a) What is the symbol of MOSFET and IGBT ? 2
- (b) Explain Reverse recovery time of Thyristor. 5
- (c) Explain working and construction principle of MOSFET. 7

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