SECTION-C

Note:Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 With the help of neat diagram explain single phase half wave controlled rectifier with R-L load.
- Q.4 Explain the construction and working of SCR also explain its VI characteristic in detail.
- Q.5 Draw and explain the working of UPS also write difference between on line and off line UPS.
- Q.6 What is a cyclo converter explain its types with the help on neat wave forms.
- Q.7 Write short notes on any two
 - a) Full wave drive.
 - b) Bridge controlled full wave rectifier.
 - c) Criteria for selecting battery for UPS.

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5th Sem. / Instrumentation & Control Electronics & Instt.

Subject: Power Electronics

Time: 3 Hrs. M.M.: 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Triggering.
 - b) SCR symbol.
 - c) Latching current.
 - d) Holding current.
 - e) Duty cycle.
 - f) Commutation.
 - g) Snubber circuit.
 - h) UPS.

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- Relaxation oscillator.
- HVDC. j)
- Dual converter.
- Cyclo converter.
- Symbol of DIAC.
- Heat sink.
- Expand LASCR.
- UJT. p)
- SMPS. a)
- Inverter. r)

SECTION-B

Note: Short answer type questions. Attempt any ten 10x4=40 parts

- Q.2 Explain the construction of DIAC.
 - Explain two transistor analogy of SCR.
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- Explain the factors that are consider for selection material of heat sink.
- Explain the class C communication.
- Differentiate between natural ad forced communication.
- Explain the MOSFET.
- Write about Gate triggering.
- viii) Explain chopper and its types.
- WWW. RSDie Online L Explain working of dualconnecter.
 - Explain different methods of triggering.
 - What is variable frequency drive.
 - xii) Explain working of series in verter.
 - xiii) Explain step up cyclo connector.
 - xiv) What is HVDV explain unipolar HVDC.
 - xv) Explain the function of UPS.

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