

- Q.5 A Cyclo converter is a _____
- One stage power converter
 - One stage voltage converter
 - One stage frequency converter
 - None of the mentioned
- Q.6 Among the following, the most suitable method to turn on the SCR device is the
- Gate triggering method
 - Dv/Dt triggering method
 - Forward voltage triggering method
 - Temperature triggering method
- Q.7 SCRs are connected in parallel to fulfill the _____ demand.
- High voltage
 - High current
 - Size
 - Efficiency
- Q.8 A step down choppers can be used in
- Electric traction
 - Electric Vehicles
 - Machine tools
 - All of these
- Q.9 SPMS are based on the _____ principle.
- Phase control
 - Integral Control
 - Chopper
 - MOSFET
- Q.10 Dual converters provide
- Two Quadrant operation
 - Three Quadrant operation
 - four Quadrant operation
 - None of the mentioned

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Draw symbol of TRIAC
- Q.12 Expand UJT.
- Q.13 In which quadrant Class D chopper operates?
- Q.14 The heart of inverter is the _____
- Q.15 Define the term SCR.
- Q.16 On-line UPS System is _____ reliable than Off-Line UPS.
- Q.17 A Dual Converter consists of two fully controlled converters connected in _____
- Q.18 A Cyclo-converter is an _____ power converter. (AC/DC)
- Q.19 Field control method is used in DC motors to get the speeds _____ Normal speed
- Q.20 Single Phase DC drives converts AC signal into DC signal (True/False)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Draw and explain V-I characteristics of UJT.
- Q.22 Draw and Explain block diagram of dual converter.
- Q.23 Discuss the working of single phase half wave controlled rectifier with resistive load.
- Q.24 Explain the single phase dual Converter.
- Q.25 Describe the battery charger used in UPS.