

Power Electronics & PLC Question Bank

Short questions

- ① Define latching current.
- ② Define holding current.
- ③ What is a snubber circuit?
- ④ What are the advantages of GTO over SCR?
- ⑤ What is meant by phase controlled rectifier?
- ⑥ What is the function of free-wheeling diodes in controlled rectifiers?
- ⑦ What is meant by commutation?
- ⑧ What are the applications of dc choppers?
- ⑨ Difference between PLCs & Computers.
- ⑩ What is Ladder diagram?
- ⑪ List 6 applications of SCR.
- ⑫ Classify the converters in 3 aspects
- ⑬ Define cyclo converters?
- ⑭ Define uninterruptible power supply.
- ⑮ State the need of Automation.
- ⑯ List any three comparison instruction in PLC.
- ⑰ Draw Ladder diag for NOR gate & NAND gate

Long question

- ① Explain the construction & working of SCR with neat diagram
- ② Explain the working of single phase AC Regulator & Explain the working of three phase inverter for 120° mode of operation.
- ③ Draw the block diagram of PLC & Explain the purpose of each part of PLC.
- ④ Explain the working of single-phase full wave fully controlled Converter with RL load along with neat diagram.
- ⑤ Explain the working principle of choppers with neat diag & waveform
- ⑥ Explain the basic operation of cycloconverters.