1. Explain the V-I characteristics of SCR.
2. Explain the construction and working of SCR.
3. Discuss different types of four operating modes of TRIAC.
4. Explain working and characteristics of UJT.
5. Convert following numbers.
   i) \((11011)_2 = (\quad)_8\)
   ii) \((754)_8 = (\quad)_2\)
   iii) \((226)_{10} = (\quad)_8\)
   iv) \((1475)_8 = (\quad)_{10}\)
   v) \((11011)_2 = (\quad)_{16}\)
   vi) \((A7B8)_{16} = (\quad)_2\)
   vii) \((14E9)_{16} = (\quad)_{10}\)
6. Explain De-Morgans theorem
7. Discuss the basic logic gates using symbols and truth tables.
8. Realize AND, OR & NOT gates using universal gates.
9. Why NAND & NOR are called universal gates.
10. Discuss the special gates using symbols and truth tables.
11. Explain the concepts of fuses. Also explain different types.
12. Draw and explain the construction and operation of rewirable fuse.
13. Draw and explain the construction and operation of H.R.C. cartridge fuse.
15. What are the different tests on wiring installation?
16. Explain the construction and operation of MCB’s, RCCB’s, and ELCB’s.