Digital Electronics Class Test :01

Answer all the questions

5 X 5 = 25

Q1. Design a 4-bit Binary to Gray code converter circuit using a suitable PROM.

Q2. Design a 4-bit Gray to Binary converter circuit using a 3-bit wide AND-OR based PAL.

Q3. Design a full adder circuit using a suitable PLA.

Q4. Write the differences between PROM, PAL and PLA.

Q5. Discuss the advantages of PLDs with Discrete ICs and ASIC.