

UNIT V

S.No	Short Answer Questions	Blooms taxonomy	Level
1.	Explain the block diagram of memory unit?	Understand	5
2.	Explain in detail about RAM and types of RAM?	Understand	5
3.	Illustrate the features of a ROM cell?	Apply	5
4.	Explain in detail about ROM and types of ROM?	Understand	5
5.	Differentiate static and dynamic RAM?	Apply	5
6.	Explain what is the use of cache memory?	Understand	5
7.	Explain PLA with the help of block diagram?	Understand	5
8.	Explain the advantage of PLA over ROMs?	Understand	5
Long Answer Questions			
1.	Sketch the PLA program table for the four Boolean functions. Minimize the number of product terms? $A(x,y,z) = \Sigma(0,1,3,5)$ $B(x,y,z) = \Sigma(2,6)$ $C(x,y,z) = \Sigma(1,2,3,5,7)$ $D(x,y,z) = \Sigma(0,1,6)$	Apply	5
2.	Explain the DRAM organization of 2M*8 memory chip? Distinguish between SRAM and DRAM and draw static RAM cell?	Apply	5
3.	Solve the following two Boolean functions using a PLA having 3-inputs, 4 product terms and 2 outputs? $F1(A,B,C) = \Sigma(0,1,2,4)$ $F2(A,B,C) = \Sigma(0,5,6,7)$	Apply	5
4.	Explain the state reduction and state assignment in designing sequential circuit. Consider one example in the above process?	understand	5
5.	For a 64*8 ROM determine the number of words it contains and size of each word? How many output lines are there for the ROM?	understand	5