

COMPUTER ARCHITECTURE & FUNDAMENTALS OF MICROPROCESSOR

17CSC510

TWO MARKS

1. Define Computer Organization.
2. Define Computer Architecture.
3. Write about the following logic gates NAND, NOR, Exclusive-OR.
4. Write about universal gates.
5. What do you mean by Boolean algebra?
6. What is the purpose of K-Map?
7. Write any two differences between combinational and sequential circuits.
8. Define the Combinational circuit.
9. What is a sequential circuit?
10. What is a Flip-flop?
11. What do you mean by the state table?
12. Write the types of digital logic families.
13. Define decoder.
14. Write the purpose of the multiplexer.
15. What do you mean by the register?
16. What is a binary counter?
17. Write the types of ROM.
18. Define microoperation.
19. What do you mean by register transfer language?
20. Define Bus.
21. What is the use of a Three-state Bus buffer.

FIVE MARKS :

- All the exercises and problems in Boolean Expression and K-Map.
- 1) Write the function of Half adder and Full adder in detail.
 - 2) Discuss decoder in detail.
 - 3) Explain about multiplexers in detail.
 - 4) Write a short note on registers.
 - 5) Describe the function of shift registers in detail.
 - 6) Explain the operation of binary counters in detail.
 - 7) Write a short note on the types of memory units.

TEN MARKS :

- All the exercises and problems in Boolean Expression and K-Map.
- 1) Explain the types of Flip-flops in detail.
 - 2) Discuss sequential circuits in detail.
 - 3) Explain about the Bus and memory transfers in detail.
 - 4) Describe the arithmetic microoperations in detail.

