

DIGITAL COMPUTER FUNDAMENTALS

Multiple Choice Questions & Answers

1. A NOT gate has _____.
 - A. two inputs and one output.
 - B. one input and one output.
 - C. one input and two outputs.
 - D. two inputs and two outputs.**ANSWER: B**
2. An OR gate has _____.
 - A. two inputs and one output.
 - B. one input and one output.
 - C. one input and two outputs.
 - D. one input and three outputs.**ANSWER: A**
3. The output of a logic gate can be one of two _____.
 - A. inputs.
 - B. gates.
 - C. states.
 - D. outputs.**ANSWER: A**
4. A group of 4 cells in K-map is called _____.
 - A. octet.
 - B. pair.
 - C. triple.
 - D. quad.**ANSWER: C**
5. A group of 8 cells in K-map is called _____.
 - A. octet.
 - B. pair.
 - C. triple.
 - D. quad.**ANSWER: D**
6. In a maxterm a variable appears _____.
 - A. 1 in uncomplemented and 0 in complemented.
 - B. 0 in uncomplemented and 2 in complemented.
 - C. 2 in uncomplemented and 1 in complemented.
 - D. 0 in uncomplemented and 1 in complemented.**ANSWER: D**
7. How many inputs and outputs are used to construct a full adder?
 - A. 3 inputs and 2 outputs.
 - B. 2 inputs and 1 output.
 - C. 1 input and 1 output.
 - D. 1 input and 2 outputs.**ANSWER: A**
8. How many inputs and outputs are used to construct a full subtractor?
 - A. 2 inputs and 2 outputs.
 - B. 2 inputs and 1 output.
 - C. 1 input and 1 output.
 - D. 3 inputs and 2 outputs.**ANSWER: D**
9. Which combinational circuit that performs subtraction involving three bits?

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- A. Single subtractor.
- B. Half subtractor.
- C. Full subtractor.
- D. Multi subtractor.

ANSWER: C

10. A register is a group of _____ suitable for storing binary information.

- A. counters.
- B. adders.
- C. flip flops.
- D. subtractors.

ANSWER: C

11. An n-bit register has a group of _____ flip flops and is capable of storing any binary information containing n bits.

- A. $n-1$.
- B. $n(n-1)$.
- C. n .
- D. n^2 .

ANSWER: C

12. A group of flipflops sensitive to pulse duration is called _____

- A. registers.
- B. latch.
- C. multiplexer.
- D. demultiplexer.

ANSWER: B