

## Digital Electronics and Principles Quiz Questions and Answers Pdf

1. An assembler translates mnemonics into
  - a. binary numbers
  - b. hexadecimal numbers
  - c. decimal number
  - d. alphabets

Ans: A

2. An ideal voltage source has
  - a. zero internal resistance
  - b. infinite internal resistance
  - c. a load dependent voltage
  - d. a load dependent current

Ans: A

3. Which is the most widely used semiconductor?
  - a. Copper
  - b. Germanium
  - c. Silicon
  - d. All of these

Ans: C

4. At room temperature an intrinsic silicon crystal acts approximately like
  - a. a battery
  - b. a conductor
  - c. a piece of copper wire
  - d. an insulator

Ans: D

5. Silicon atoms combine into an orderly pattern called a
  - a. covalent bond
  - b. crystal
  - c. semiconductor
  - d. valence orbit

Ans: b

6. The merging of a free electron and a hole is called
  - a. Covalent bonding
  - b. Lifetime
  - c. Recombination

d. Thermal energy

Ans: C

7. The 234 gates device falls in which category

- a. LSI
- b. MSI
- c. SSI
- d. None of these

Ans: A

8. Conversion of an octal number  $60_8$  to binary number is

- a.  $110000_2$
- b.  $10011_2$
- c.  $1100111_2$
- d.  $1100110_2$

Ans: A

9. Calculate the clock cycle time for a system that uses a clock that has a frequency of 6 MHz

- a. 100 ns
- b. 167 ns
- c. 1.33 ns
- d. 13.3 ns

Ans: B

10. Conversion of decimal number  $71_{10}$  to its binary number equivalent is

- a.  $110011_2$
- b.  $111011_2$
- c.  $0110011_2$
- d.  $100111_2$

Ans: D