# MCQs of DLD

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## MCQs of DLD

### 1. Which of the following gates give output 1, if and only if at least one input is 1?

A.OR
B.AND
C.NOR
D.NAND

☐ **Answer - Click Here:**

A

### 2. For performing the function of two-input OR gate, What is the minimum number of two-input NAND gates used?

A.2
B.3
C.4
D.5

☐ **Answer - Click Here:**

B

### 3. In an application where input signals may _____,Asynchronous circuits are useful.

A. never change
B. change at any time
C. both a and b
D. None

☐ **Answer - Click Here:**

C

### 4. The time required by a gate or inverter to change their state is called _____.

A.Rise time
B.Decay time
C.Charging time
D.Propagation time

☐ **Answer - Click Here:**

D

**5. The next state is determined in a sequential circuit is determined by _____ and _____**

A. Current state and external input
B. Current state, flip-flop output
C. State variable, current state
D. Input and clock signal applied

☐ Answer - Click Here:

   A

**6. SR latch contain _____**

A. 4 input
B. 3 inputs
C. 2 inputs
D. 1 inputs

☐ Answer - Click Here:

   C

**7. If a pulse change from 10% to 90% of its maximum value, the time required is known as _____.**

A.Rise time
B.Operating speed
C.Propagation time
D.Decay time

☐ Answer - Click Here:

   A

**8. By using two cascading counters _____, _____ the divide-by-60 counter in digital clock is implemented.**

A. Mod-10, Mod-50.
B. Mod-50, Mod-10
C. Mod-6, Mod-10
D. Mod-50, Mod-6

☐ Answer - Click Here:

   C

**9. Which table is not a part of the asynchronous analysis procedure?**

A. transition table
B. excitation table
C. flow table
D. state table

☐ Answer - Click Here:

B

## 10. Digital data can be applied to gate by maximum frequency which is called _____.

A. Charging time
B. Propagation speed
C. Binary level transaction period
D. Operating speed

☐ **Answer - Click Here:**

D

## 11. Minimum time for which input signal maintained at the input of flip-flop is called _____ of the flip-flop.

A. Set-up time
B. Hold time
C. Pulse Stability time (PST)
D. Pulse Interval time

☐ **Answer - Click Here:**

B

## 12. For making a transition table we use _____.

A. 3 steps
B. 5 steps
C. 6 steps
D. 8 steps

☐ **Answer - Click Here:**

C

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