Dashboard > Courses > School Of Engineering & Applied Sciences > B.Tech. > B.Tech. Cohort 2020-2024 > Semester-II Cohort 2020-24 > ECSE108L-Even2021 (Group - I & Group - II) > 19 June - 25 June > QUIZ 2

Started on	Friday, 2 July 2021, 6:04 PM
State	Finished
Completed on	Friday, 2 July 2021, 6:19 PM
Time taken	15 mins 1 sec
Marks	14.00/15.00
Grade	**9.33** out of 10.00 (**93**%)

Question 1

Incorrect

Mark 0.00 out of 1.00

What is the maximum possible range of bit-count specifically in n-bit binary counter consisting of 'n' number of flip-flops?

Select one:

- a. 0 to 2^n - 1
- b. 0 to 2^n
- ⦿ c. 0 to 2^n + 1 ✗
- d. 0 to $2^{n+1/2}$

The correct answer is: 0 to 2^n - 1

Question 2

Correct

Mark 1.00 out of 1.00

Ring counters is

Select one:

- a. Asynchronous counters
- ⦿ b. Synchronous counters ✓
- c. None of the given

The correct answer is: Synchronous counters

For 0-17 up counter, how many flip-flops are required?

Select one:

- ○ a. 5 ✓
- ○ b. 4
- ○ c. 2
- ○ d. 3

The correct answer is: 5

An X-Y flipflop, whose characteristic table is given below is to be implemented using J-K flipflop. This can be done by making: -

X	Y	Q_n+1
0	0	1
0	1	Q_n
1	0	Q_n'
1	1	0

Select one:

- ○ a. J=X, K=Y'
- ○ b. J=Y, K=X'
- ○ c. J=Y', K=X ✓
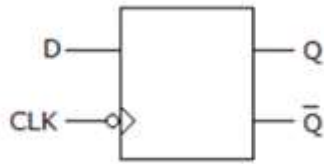- ○ d. J=X', K=Y

The correct answer is: J=Y', K=X

The symbols on this flip-flop device indicate _____.

Select one:

○ a. Triggering can take place anytime during the LOW level of the CLK waveform

○ b. Triggering can take place anytime during the HIGH level of the CLK waveform

○ c. Triggering takes place on the positive edge of the CLK pulse.

⦿ d. Triggering takes place on the negative edge of the CLK pulse. ✓

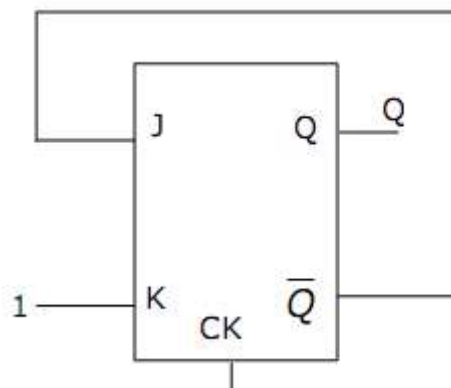The correct answer is: Triggering takes place on the negative edge of the CLK pulse.

In JK flip flop if Qbar is connected as J input then in next 5 clock cycle what will be q output value. assume initially q=0 and Qbar = 1 ck is clock

Select one:

⦿ a. 01010 ✓

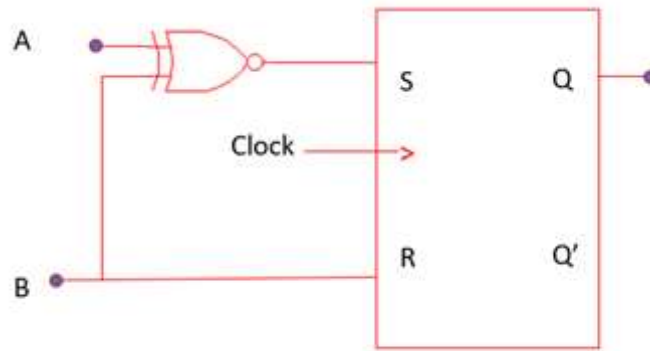○ b. 00110

○ c. 01111

○ d. 11100

The correct answer is: 01010

An AB Flip flop constructed from SR Flip flop as shown in the figure, the expression for next state Q' is

Select one:

○ a. A'B' +A'Q

○ b. AB + AQ

◉ c. A'B +AQ' ✓

○ d. A'B + A'Q

The correct answer is: A'B +AQ'