Branch: CSE & IT

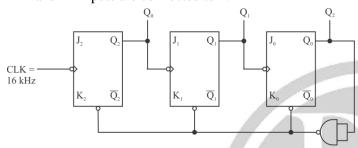
Batch: Hinglish

Subject : Digital Logic

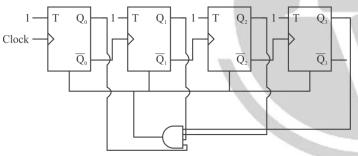
DPP - 04

Chapter: Sequential Circuits

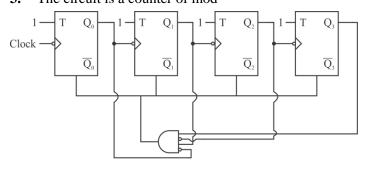
1. What is the output signal frequency of the following counter if the clock signal frequency is 16 kHz? All 'J' and 'K' inputs are connected to 1.



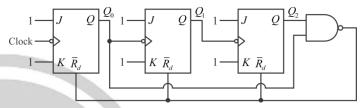
- (a) 4 kHz
- (b) 8 kHz
- (c) 10 kHz
- (d) 16 kHz
- 2. The circuit is counter of mod



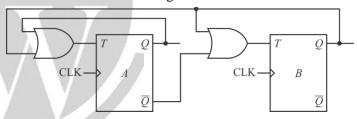
- (a) Mod-0
- (b) Mod-16
- (c) Mod-15
- (d) Mod-14
- 3. The circuit is a counter of mod



4. The circuit shown consists of J-K flip-flops, each with an active low asynchronous reset (\bar{R}_d input). The counter corresponding to this circuit is



- (a) a modulo-5 binary up counter.
- (b) a modulo-6 binary down counter.
- (c) a modulo-5 binary down counter.
- (d) a modulo-6 binary up counter.
- 5. The circuit shown in figure is



- (a) a MOD-2 counter
- (b) a MOD-3 counter
- (c) generate sequence 00, 10, 01, 00.....
- (d) generate sequence 00, 10, 00, 10, 00

Answer Key

1. (a)

2. (c)

3. (10)

4. (a)

5. **(b)**





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