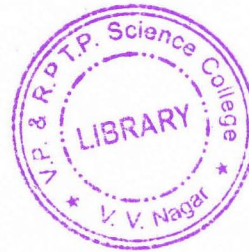


Q.1 Multiple Choice Questions:

03

1. The output of X-OR gate is high
 - I. When both the inputs are high
 - II. When both the inputs are low
 - III. When both the inputs are complementary
 - IV. None of the above
2. In J K Flip Flop, $J=K=1$, then
 - I. $Q=1$
 - II. Q =forbidden state
 - III. Q =toggle
 - IV. Last state
3. Delay time is more in case of
 - I. Serial Counter
 - II. Parallel Counter
 - III. Combinational Counter
 - IV. None of the above



Q.2 Answer any three questions in short.

04

1. Define Fan in and Fan out of Circuit.
2. What are advantages of D Flip Flop over RS Flip Flop?
3. What is the advantage and disadvantage of serial counter?

Q.3 Describe any three applications of X-OR gate.

06

OR

Q.3 Describe in detail working of TTL NAND gate with logic specifications.

06

Q.4 Describe in detail Edge triggered D Flip Flop.

06

OR

Q.4 Describe fully Schmitt Trigger circuit.

06

Q.5 Explain working of 8bit Asynchronous counter. Draw waveform diagram also.

06

OR

Q.5 Explain working of Mod 6 parallel counter. Draw waveform diagram also.

06

*****BEST OF LUCK *****