

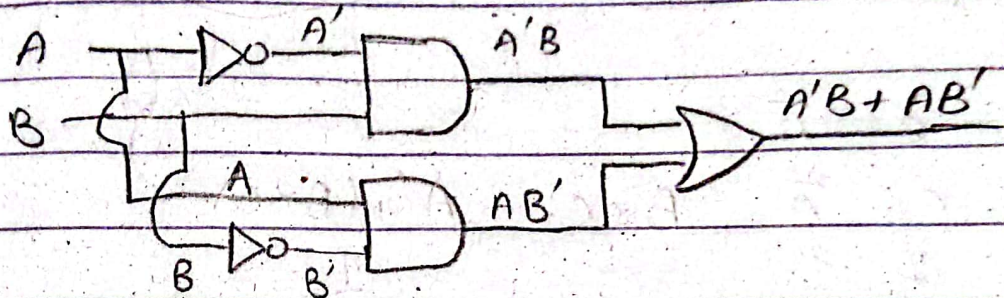
(class fourth) only quiz, no notes

Quiz No: 02

Pg # 01

Q₁ Implement the Boolean function $F = A'B + AB'$ using only NAND gates.

$$F = A'B + AB'$$



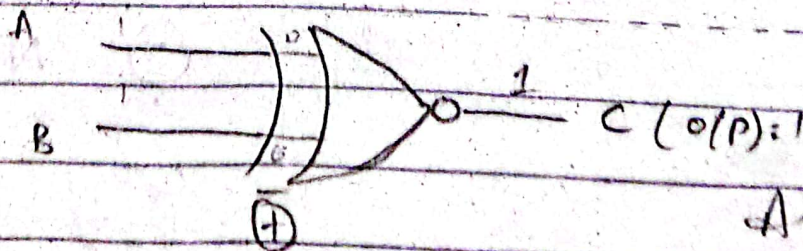
Q₂ Implement the Boolean function $F = A \text{ XOR } B$ using only NOR gate

$$F = A \text{ XOR } B$$

By using NOR Gate



convert X-NOR



Q3 Draw the truth table for the following Boolean Expression $A' + (B \times C)$

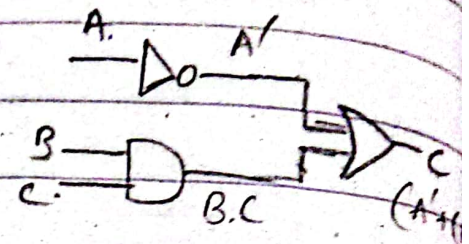
$$F = A' + (B \times C)$$

TRUTH TABLE

A	B	C	A
A	B	C	\bar{A}
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

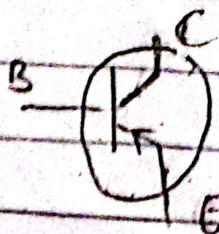
$B \times C$

$A' + (B \times C)$

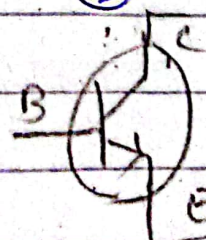


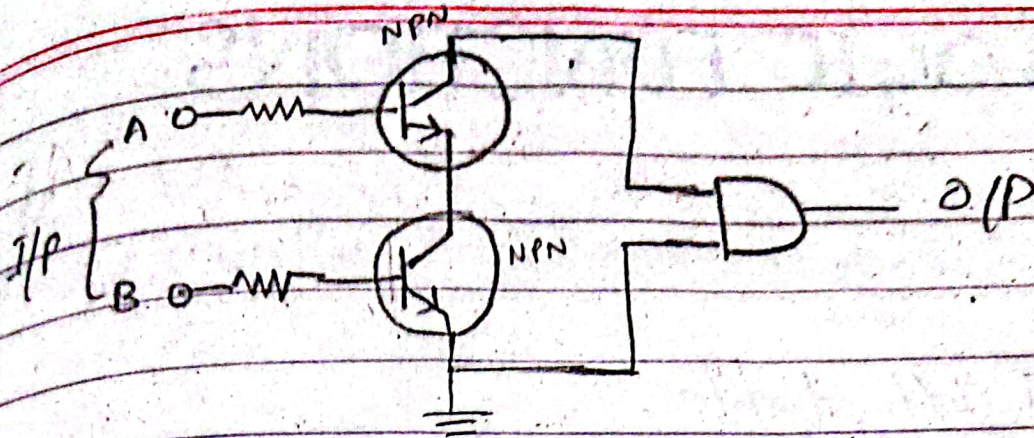
Q4 Draw the schematic figures for a two input AND gate using transi

① PNP



② NPN





Q4 Implement the Boolean function $F = AB + C$ using multiplexer.

میں سے اس میں صرف logic gates بنائے

