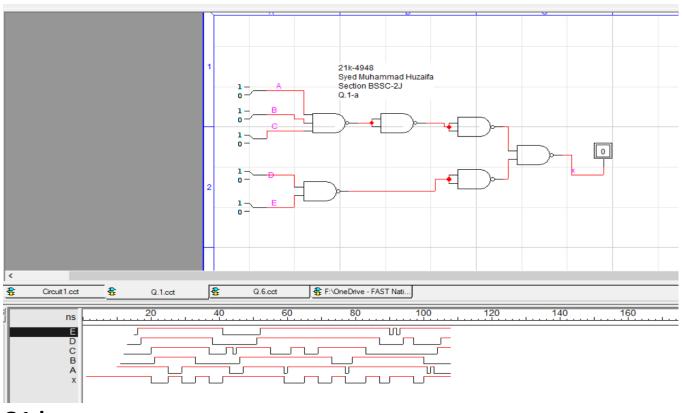
Name: Syed Muhammad Huzaifa Roll No: 21k-4948 Section: BSCS-2J

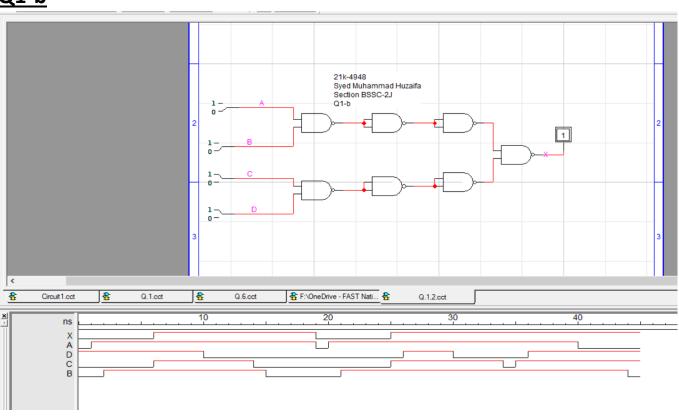
Teacher: Miss Sadaf Ayesha

Question No 1

Q.1-a



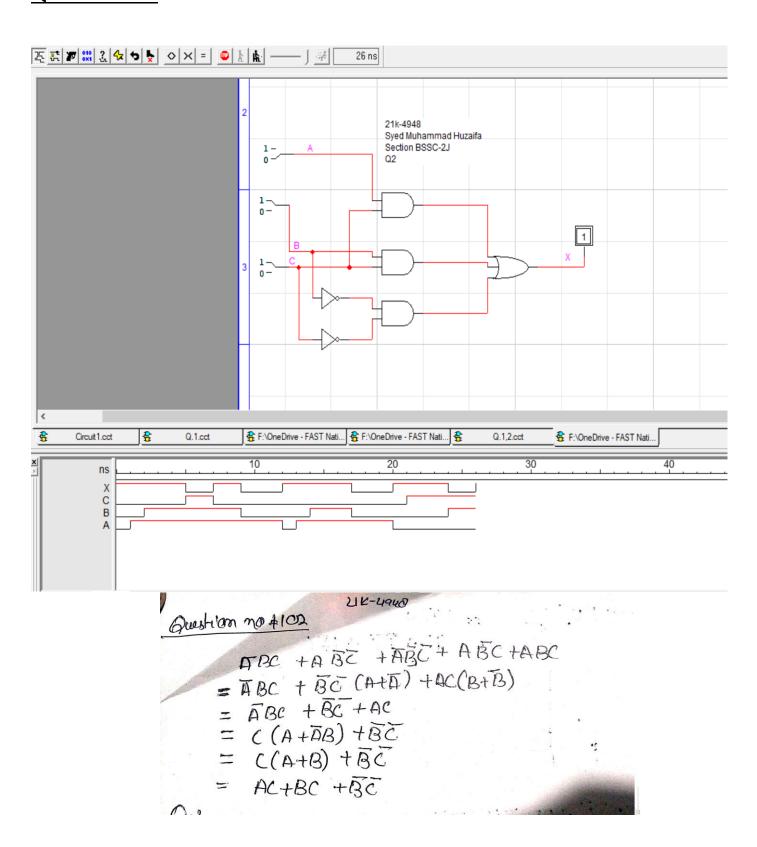
Q1-b



Roll No: 21k-4948

Teacher: Miss Sadaf Ayesha

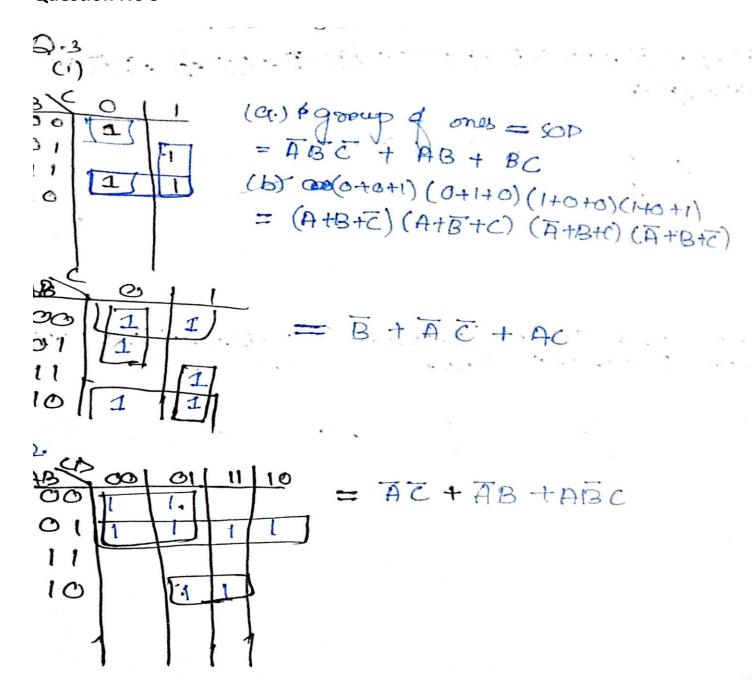
Section: BSCS-2J



Roll No: 21k-4948

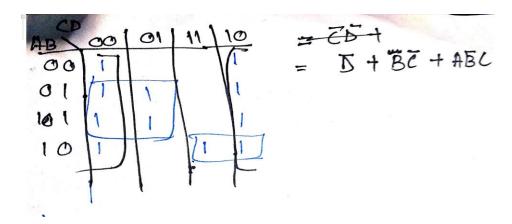
Teacher: Miss Sadaf Ayesha

Section: BSCS-2J



Name: Syed Muhammad Huzaifa Roll No: 21k-4948 Section: BSCS-2J

Teacher: Miss Sadaf Ayesha

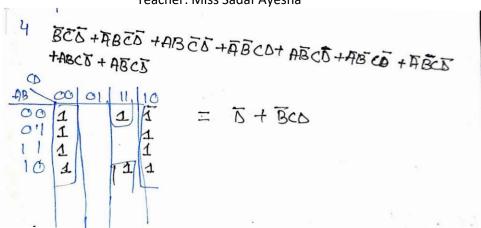


Α	В	С	D	Х
0	0	0	0	1
0	0	0	1	0
0	0	1	0	1
0	0	1	1	1
0	1	0	0	1
0	1	0	1	0
0	1	1	0	1
0	1	1	1	0
1	0	0	0	1
1	0	0	1	0
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	0
1	1	1	0	1
1	1	1	1	0

Roll No: 21k-4948

Teacher: Miss Sadaf Ayesha

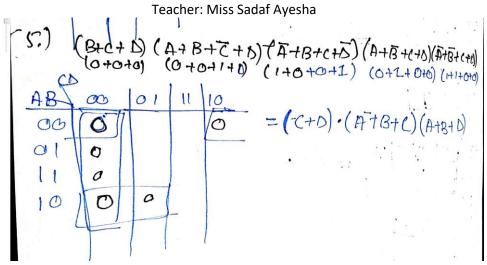
Section: BSCS-2J



Α	В	С	D	Х
0	0	0	0	0
0	0	0	1	1
0	0	1	0	0
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	0
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	0
1	1	0	1	0
1	1	1	0	1
1	1	1	1	1

Roll No: 21k-4948

Section: BSCS-2J

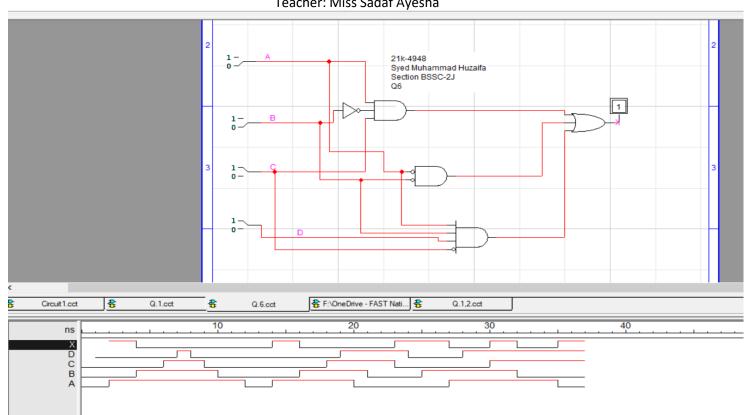


$$\begin{array}{lll}
\hline
ABC + \overline{AB} + ABC \\
&= (ABC)(D+\overline{D}) + \overline{AB}(C+\overline{C})(D+\overline{D}) + ABC \\
&= ABCD + ABCD + \overline{AB}(C+\overline{C})+\overline{C}D + \overline{ABCD} + \overline{ABCD} \\
&= ABCD + ABCD + \overline{ABCD} + \overline{ABCD} + \overline{ABCD} + \overline{ABCD} + \overline{ABCD} \\
\hline
CO & OI & 11 & 10 \\
\hline
OO & 1 & 1 & 1 & 1 \\
\hline
10 & 1 & 1 & 1
\end{array}$$

Roll No: 21k-4948

Teacher: Miss Sadaf Ayesha

Section: BSCS-2J



$$\begin{array}{ll}
\left(\begin{array}{c}
\left(\begin{array}{c}
A+B+C\end{array}\right)\left(B+C+D\right)\left(A+B+C+D\right) \\
&= \frac{1}{1}\left(A+B+C\right)\left(A-D\right)\left(B+C+D\right)\left(A-B\right)\left(A+B+C+D\right) \\
&= \left(A+BC+D\right)\left(A+B+C+D\right)\left(B+C+D+A\right)\left(B+C+D\right) \\
\left(A+B+C+D\right)
\end{array}$$

Name: Syed Muhammad Huzaifa Roll No: 21k-4948 Section: BSCS-2J Teacher: Miss Sadaf Ayesha 21k-4948 Syed Muhammad Huzaifa Section BSSC-2J Q7 1 Circuit 1.cct 8 Q.1.cct 8 Q.6.cct 🕏 F:\OneDrive - FAST Nati... 🗟 Q.1,2.cct 30 10 20 ns A D C B

H ← → → Timing /