IE1204 Digital Design Answer Form 2023-2024

	Full Name		F	Pers	onal	Nu	mbe	r		Program
		<u> </u>								
#	Answer with	<u> </u>			Ans	wer	-			Points
1	Decimal number									
2	8 bit two's complement hexadecimal number			C)x					
3	8 bit two's complement hexadecimal number			С)x					
4	Boolean expression, Y =	-								
5	Circuit number									
6	Boolean expression, Y =									
7	MUX connections, Boolean expression or Gate									
	Row CD = 00									
	Row CD = 01									
	Row CD = 10									
	Row CD = 11									
8	Timing diagram									
	0 ms 5 ms 10 ms 15 ms 20 ms 25 ms CLK Q	30 ms		35 ms		40 ms		45 ms		
9	Flip-Flop or Latch #									
10	Maximum clock frequency =	GHz							GHz	
	Is the Hold time constraint ok?					Г 1 ·	Yes		No	
11	Number of states =								-110	
	Final state $Q_3Q_2Q_1Q_0 =$									
12										
12	Boolean expression Y =					1	1	I		
	Input $D_3D_2D_1D_0 =$	<u> </u>								
13	16 bit two's complement hexadecimal	Р								
1.4	Product A x B		Q F		l _D					
14	8 bit two's complement hexadecimal Quotient (A / B) and Remainder	٧			K	R				
15	8 result bits (S ₇ S ₆ S ₅ S ₄ S ₃ S ₂ S ₁ S ₀)									
16	Memory contents, 8 decimal digits			<u> </u>		<u> </u>	<u> </u>	<u> </u>		
	internory contents, o accimal digits									
TOTAL POINTS		Exa	Examiner sign							