

# IE1204 Digital Design Answer Form Practice 2020

Full Name		Personal Number		Program	
Practice Exam Fall 2020		YYYYMMDD-XXXX		NN	
#	Answer with	Answer		Points	
1	Decimal number	-87		1	
2	8 bit two's complement binary number	0	1	1	1
3	8 bit two's complement binary number	1	0	1	1
4	Boolean expression, Y =	$A + B + C + D$		1	
5	Boolean expression, Y =	$(A + B + \bar{C})(A + \bar{B} + C)(\bar{A} + \bar{B} + \bar{C})$		1	
6	Boolean expression, Y =	$\bar{B} \cdot \bar{D} + C \cdot \bar{D} + A \cdot \bar{B} \cdot \bar{C}$		1	
7	MUX connections	$\bar{B}$		1	
	Row CD = 00	$A \oplus B$			
	Row CD = 01	$\bar{A} + B$			
	Row CD = 10	0			
8	Timing diagram			1	
9	Timing diagram			1	
10	Setup condition Hold condition	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	1	
		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
11	Boolean expression	$B \cdot C$		1	
12	16 bit two's complement binary number, MSB	1	1	1	1
	LSB	1	1	1	1
13	8 bit two's complement binary number	1	1	1	1
14	Number interval	-32 to 31.75		1	
15	5 result bits (S4 S3 S2 S1 S0)	1	0	1	1
16	4 flag bits (V C N Z)	0	0	0	1
TOTAL POINTS		Examiner sign <b>CMZ</b>		16	