

IE1204 Digital Design Answer Form 2021-05-17

Full Name		Personal Number	Program
Exam Answers 2021-05-17		11111111 = 255	NN
#	Answer with	Answer	Points
1	Decimal number	-102	1
2	8 bit two's complement binary number	0 1 1 1 1 1 0 1	1
3	8 bit two's complement binary number	1 0 1 1 1 0 1 1	1
4	Boolean expression, Y =	$A(B+D)+C$	1
5	Boolean expression, Y = $Y = (A + \bar{B} + C)(\bar{A} + \bar{B} + C)(\bar{A} + \bar{B} + \bar{C}) = (\bar{B} + C)(\bar{A} + \bar{B})$		1
6	Boolean expression, Y = OR	$Y = \bar{A} \cdot \bar{C} + C \cdot \bar{D} + B \cdot \bar{C}$ $Y = (\bar{C} + \bar{D})(\bar{A} + B + C)$	1
7	MUX connections	I	1
	CD = 00	B	
	CD = 01	$A B$	
	CD = 10	$A + B$	
	CD = 11		
8	Timing diagram		1
9	Timing diagram		1
10	Setup condition Hold condition	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1
11	Boolean expression (Hazard fix only)	$C D$	1
12	16 bit two's complement binary number, MSB	1 1 1 1 1 1 1 0	1
	LSB	1 0 0 1 0 1 0 0	
13	8 bit two's complement binary number	1 1 1 1 0 1 1 1	1
14	Number interval	-8 to 7.9375	1
15	5 result bits (S4 S3 S2 S1 S0)	1 0 0 0 1	1
16	4 flag bits (V C N Z)	0 0 1 0	1
TOTAL POINTS		Examiner sign CMZ	16