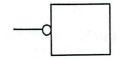


DIGITAL LOGIC QUIZ 1 SET 2

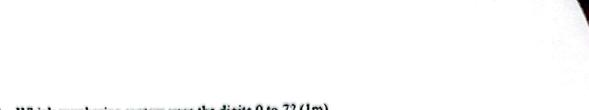
Name:	LIM YN HAN
Metric Number:	AZZCSOZYI
Section:	02.

Answe	rs:				D					D			
1.	D	/	2.	B	1	3.	D	/	4.	C	K	5.	D
5.	D	,	7.	B		8.	A		9.	A	/	10.	A
		/			/								

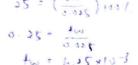
1. What is the meaning of the symbol? (1m)



- A. on-state
- B. pulse state
- C. active high
- D active low
- 2. Which of the following is used to measure the rate of information transmitted in a digital signal? (1m)
 - A. Amplitude
 - (B.) Duty Cycle
 - C. Phase
 - D. Bandwidth
- 3. Which of the following is a fixed-function integrated circuit used in digital electronics? (1m)
 - A. FPGA
 - B. CPLD
 - C. PLD
 - D, AND gate
- 4. _____ is used to route data from one source to multiple destinations? (1m)
 - A. Encoder
 - B. Decoder
 - C) MUX
 - D. DEMUX



- 5. Which numbering system uses the digits 0 to 7? (1m)
 - A. Binary
 - B. Decimal
 - C. Hexadecimal
 - D. Octal
- 6. Assuming a 25% duty cycle and a 40 Hz frequency, find the period time (T) and the system's pulse width (tw) in seconds (s). (2m)
 - A. T = 0.00625 s, tw = 0.025 s
 - B. T = 0.625 s, tw = 0.025 s
 - C. T = 0.0625 s, tw = 0.25 s
 - D. T = 0.025 s, tw = 0.00625



114

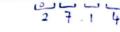


- 7. Which of the following represents the binary number 101100.0111 in octal? (2m)
 A. 35.24

 - B. 54.34
 - C. 45.43
 - D. 65.53
- 8. What is the BCD equivalent of the decimal number 12.45? (2m)
 - A: 00010010.01000101
 - B. 00010001.01101001
- C. 11000010.10010011
- 0010
- → D. 10010001.01100001
- 9. What is the decimal equivalent of the binary number 10111.0011? (2m)



- B. 11.0875
- C. 16.5255
- D. 26.1255





0101

- 27.14g = 10 27.14 (2×8')+(7×8')+(1×8-1)+(4×8-2)
 - . 23.1875 10
- 10. Using the ASCII Table (Table 2), fill Table 1 with the correct characters and values. (2m)

Table 1

Character	ASCII Hexa	Binary (7 bit)	ODD Parity (8 bit)	New ASCII Hexa		
G	(i) 47	1000111	(ii)	(iii)		
^		4-even	1 1000111	C 7		

- (A) (i) 47, (ii) 1 1000111, (iii) C7
- B. (i) 75, (ii) 1 1000111, (iii) D7
- C. (i) 46, (ii) 1 1001011, (iii) C5
- D. (i) 64, (ii) 1 1100111, (iii) A4

			ndl.	32	20	many sinomic facts	riminiminimin	many it was		00	CO	-
1	1	01	SOH	33	21	(blank)	64	40	@ A	96 97	60 61	_
-1	2	02	STX	34	22		65	41			_	a
	3	03	ETX	35	23		66	42	B	98	62	b
1	4	04	EOT	36		#	67	43		99	63	C
- 1	5 6	05	ENQ	37	24	\$	68	44	Ď	100	64	d
- 1	6	06	ACK	38	25	%	69	45	E	101	65	e
- 1	7	07	BEL	39	26	8	70	46	F	102	66	
- 5	8 9	08	BS		27		71	47	G	103	67	9
1.10	9	09	TH	40 41	28	(72	48	H	104	68	h
	10	0A	LF	42	29)	73	49		105	69	
	11	0B	VT		2A		74	4A	J	106	6A	j
	12	OC		43	28	•	75	4B	K	107	6 B	k
	13	GO	FF	44	2C		76	4C	L	108	6C	Park Marie
	14	0E	CR	45	2D		77	4D	M	109	6D	m
	15	OF	so	46	2E		78	4E	N	110	6E	n
	16		SI	47	2F	1	79	4F	0	111	6F	0
	17	10 11	DLE	48	30	0	80	50	P	112	70	P
	18		DC1	49	31	1	81	51	Q	113	71	q
	19	12	DC2	50	32	2	82	52	R	114	72	r
	20	13	DC3	51	33	3	B3	53	S	115	73	S
	21	14	DC4	52	34	4	84	54	T	116	74	1
3		15	NAK	53	35	5	85	55	U	117	75	u
	22	16	SYN	54	36	6	86	56	V	118	76	V
	23	17	ETB	55	37	7	87	57	W	119	77	w
4	24	18	CAN	56	38	8	88	58	X	120	78	X
	25	19	EM	57	39	9	89	59	Υ	121	79	у
- 1	26	1A	SUB	58	3A	::	90	5A	Z	122	7A	ź
	27	1B	ESC	59	3B		91	5B	1	123	7B	1
	28	1C	FS	60	3C	<	92	5C	j	124	7C	
	29	1D	GS	61	3D	=	93	5D]	125	7D	}
	30	1E	RS	62	3E	>	94	5E	Ă	126	7E	-
- [31	1F	US	63	3F	?	95	5F		127	7F	(delete)