DIGITAL LOGIC QUIZ 1 SET 2

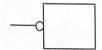
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Metric Number:	A23CSU283						
Section:	2						

Answers:

					V -				
6. D / 7.	В	/	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 $\rm Hz$ 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

- to 25 = tw 25 2100
- 1w = 0.00625
- 7. Which of the following represents the binary number 101 100.011 1 in octal? (2m)

 - (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
 - D. 10010001.01100001
- 2 12 2 6 0
- 2 3 0
- 9. What is the decimal equivalent of the binary number 10111.0011? (2m)
 - (A)23.1875
 - B. 11.0875
 - C. 16.5255
 - D. 26.1255

0-125 4 0.0625

5 4 4 3 4

10. Using the ASCII Table (Table 2), fill Table 1 with the correct characters and values. (2m)

Table 1 c7 Character ASCII Hexa ODD Parity (8 bit) Binary (7 bit) New ASCII Hexa (i) 1000111 (ii) (iii)

- (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

Table 2: ASCII Table

Decimal	Hex	ASCII	Decimal	Hex	ASCII	Decimal	Hex	ASCII	Decimal	Hex	ASCII
0	00	NUL	32	20	(blank)	64	40	0	96	60	
1	01	SOH	33	21	1	65	41	@ A	97	61	а
2	02	STX	34	22		66	42	В	98	62	b
3	03	ETX	35	23	#	67	43	C	99	63	C
4	04	EOT	36	24	\$	68	44	D	100	64	d
5	05	ENQ	37	25	%	69	45	E	101	65	e
6	06	ACK	38	26	&	70	46	F	102	66	1
7	07	BEL	39	27	Ÿ.	71	47	G	103	67	9
8	08	BS	40	28	1	72	48	Н	104	68	h
9	09	HT	41	29	1	73	49	i	105	69	i
10	AO	LF	42	2A		74	4A	J	106	6A	1
11	0B	VT	43	2B	+	75	4B	K	107	6B	k
12	OC.	FF	44	2C		76	4C	Ĺ	108	6C	- 1
13	0D	CR	45	2D		77	4D	M	109	6D	m
14	0E	SO	46	2E		78	4E	N	110	6E	n
15	OF	SI	47	2F	1	79	4F	0	111	6F	0
16	10	DLE		30	0	80	50	P	112	70	p
1 17	11	DC1		31	1	81	51	Q	113	71	q
18	12	DC		32	2	82	52	R	114	72	ı
19	13	DC		33	3	83	53	S	115	73	5
20	14	DC		34	4	84	54	T	116	74	1
21	15	NAI		35	5	85	55	U	117	75	u
22				36	6	86	56	V	118	76	٧
23				37	7	87	57	W	119	77	W
24				38	8	88	58	X	120	78	X
25				39	9	89	59	Y	121	79	у
26		\ SU	IB 58	3A		90	5A	Z	122	7A	Z
2		B ES	C 59	3B		91	5B	-	123	7B	1
2	8 10			30		92	5C	,	124	7C 7D	1
2			S 61	30		93	5D	1	125 126	7E	1
	0 1		S 62			94	5E	,	120	7F	(dele
1 3	1 1	F U	S 63	3F	?	95	5F		127	/1	lucii