* Multiple Choice Question *							
1	NOT gate is also known a. Converter	b. Inverter	c. complement	d. Both b and c			
2	Positive integers can be a. Signed numbers	represented as b. Unsigned numbers	c. Negative integers	d. Both a and b			
3	Register is a group of a. Binary cell	b. Binary system	c. Binary digit	d. binary number			
4	A NAND gate is called a. it is used by everyone	a universal logic element b. any logic function can be realized by NAND gate	because c. Many digital computers use NAND gate	d. None of These			
5	The NAND gate output a. 00	will be low if the two inp	outs are	d. 11			
6	Popular application flip a. Counters	b. Shift registers	c. Transfer Registers	d. a,b,c all			
7	The output of an AND a. when any input is LOW	gate is LOWb. all the time	c. when all inputs are HIGH	d. when any input			
8	Which of the following a. AB + CD	expressions is in the sun b. AB(CD)	n-of-products (SOP) for $c. (A + B)(C + D)$	m? d. (A)B(CD)			
9	Digital systems are call a. binary systems	b. logic systems	c. numbering systems	d. ADC systems			
10	In the decimal numbers  a. The middle digit of a stream of numbers	ing system, what is the Ma b. The digit to the right of the decimal point	ISD?  c. The last digit on th  right	e d. The digit with the most weight			
11	Digital systems have						

b. two state

c. three state

a. one state

d. four state

	12	Convert the fractional deca. 0111.1100	b. 0110.1010	ary. c. 0110.1100	d. 0110.0110
	13	A pulse has a period of 1: a. 6.66 Hz	5 ms. Its frequency is b. 66.66 Hz	c. 666.66 Hz	d. 15 Hz
	14	What is an analog-to-dig a. It makes digital signals	ital converter?  b. It takes analog signals and puts them in digital format.	c. It allows the use of digital signals in everyday life.	d. It stores information on a CD.
	15	What is the decimal value a. 2	b. 4	c. 6	d. 8
	16	How many binary bits a	re necessary to represent	748 different numbers?	
	10	a. 9	b. 7	c. 10	d. 8
	17	Any number with an ex	ponent of one is equal to:		
	17	a. Zero	b. one	c. two	d. that number
	18	What is the decimal val	lue of 2 <sup>-1</sup> ?		
		a. 0.5	b. 0.25	c. 0.05	d. 0.1
	19	Give the decimal value	of binary 10000110.		
		a. 134 <sub>10</sub>	b. 144 <sub>10</sub>	c. 110 <sub>10</sub>	d. 126 <sub>10</sub>
	20	What is the typical inv	alid voltage for a binary	signal?	
		a. 0.7-2.8 volts	b. 0.8-3 volts	c. 0.8-2 volts	d. 0.7-2.5 volts
	21	Which of the followin	g is not an analog device	?	
		a. Thermocouple	b. Current flow in a circuit	c. Light switch	d. Audio microphone
	2	2 Which of the following	ng is not generally associa	ated with flip-flops?	
		a. Hold time	b. Propagation delay	c. Interval time	d. Set up time
		23 A transducer is a dev	a total		
		a. converts a physical variable to an electrical variable	b. converts analog dat to meaningful data	a c. controls a physica variable	and then processes that data according to a set of specified instructions

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24	As a general rule i	for stable flip-flop trigger	ing, the clock pulse rise	and fall times must be:
	a. very long.	b. very short.	c. at a maximum value to enable the	d. of no consequence as long as the levels are
			input control signals to stabilize.	within the determinate range of value.
25	What is one disadv	vantage of an S-R flip-flo	p?	
	a. It has no enable input.	b. It has an invalid state.	c. It has no clock input.	d. It has only a single output.
26	How many flip-flo	ps are required to produc	ce a divide-by-128 dev	ice?
	a. l	b. 4	c. 6	d. 7
27	How is a J-K flip-f	lop made to toggle?		244
	a. $J = 0, K = 0$	b. $J = 1, K = 0$	c. $J = 0, K = 1$	d. $J = 1, K = 1$
28	All computer progr	rams for a machine are c	alled:	
	a.Software	b.firmware	c.hardware	d.none of these
29	The items that you	can physically touch in	a computer system are	called:
	a. software	b. firmware	c. hardware	d. none of the above
30	The devices that procomputers are refer	ovide the means for a co	omputer to communica	te with the user or other
	a. CPU	b.ALU	c.I/O	d. none of these
31	Convert the binary	number 1011010 to hex	adecimal.	
	a. 5B	b. 5F	c. 5A	d. 5C
32	What is the result w	when a decimal 5238 is o	converted to base 16?	
	a. 327.375	b. 12.166	c. 1388	d. 1476
33	An informational si	gnal that makes use of b	oinary digits is conside	
	a. solid state	b. digital	c. analog	d. non-oscillating
34	The catal manual anim	a gyetem'		
	The octal numberin a. simplifies tasks	b. groups binary numbers in groups of 4	C. Saves time	d. simplifies tasks and saves time
		office of the property		

35 Which is not a word size? a.64 b. 28

c. 16

d. 8

Digital signals transmitted on a single conductor (and a ground) must be transmitted in:
a. slow speed.
b. parallel.
c. analog.
d. serial.

constant and direct

values they represent.

proportion to the

steps in proportion to the

values they represent.

constantly over

range of values.

a continuous

interpret because they

are continuously

changing.

1 (d)	2 (b)	3(a)	4(b)	5(d)	6(d)	$\cdot$ 7(a)	8(a)	9(b)	10(d)
11(b)	12(c)	13(b)	14(b)	15(d)	16(c)	17(d)	18(a)	19(a)	20(c)
21(c)	22(c)	23(a)	24(b)	25(b)	26(d)	27(d)	28(a)	29(c)	30(c)
31(c)	32(d)	33(b)	34(d)	35(b)	36(d)	37(d)	38(b)	39(a)	40(a)
41(b)	42(a)	43(c)	44(d)	45(d)	46(b)	47(a)	48(b)	49(c)	50(a)