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## Placement Paper of CISCO

$\underset{\text { (October, 2004) }}{\text { CISC }}$

1. In order to find out stack faut ofa three input nand gate how many necessary input vectors
2. What is parity generation

A nand gate becomes_ gate when used with negative logic
4. What is the advantage of cmos over mmos?
5. What is the advanage of synchronous ciruitis over asynchronous circuils ?

What is the finction of ALE in 8885 ?
7. A vicie sigal sample is stored as one byte. Frequency range is 16 Hzto 20 Hz . What is the
menory sie required to store 4 minutes voice sienal?
. What will he controller do before interupting CPU?
9. In a normaliex flotitin pointrepresentation, mantiss is irepresented using 24 bis and exponent
with 8 bist using singed represestatiotion. What is ranene?
10. The stack uses which policy out ofthe following-- LIFO, FIFO, Round Robin or none of these?

1. Where will be the actual address of fte subroutine is phaced for vectored interupts?
2. Give the equivalent Gray code representation of AC2H.
3. What s she nemory space required if two unsigned 8 bit numbers are multiplied ?
4. The vector adress of RST 7.5 in 8855 processor is
Ans. 003 C (nuluty 7.5 by 8 and convert to hex)
5. Subtract the following hexadecinal numbers---8416-2A16
6. Add the following BCD numbers---1 1001 and 0100
7. How much time does a serial link of 64 Kbps take to transmita pieture with 540 pixels.
8. Give the output when the input ofa D -fip fop is tied to the ouput through hte XOR gate.
9. Simplify the expression $A B+A(B+C)+B(B+C$
10. Deternine the logic gate to inplement the following terms--ABC, $A+B+C$

## 21. Implement the NOR gate as an inverte.

2. What is the effect of fenperature on the Icb ina tanasistor
3. What is the bit storage capacity ofa ROM with $5512 * 4$ organization?
4. What is the reason of fter erfesch operation in dymamic RAM's?
5. Suppose that the D input of af fip flop clanges from tow t t high in the middle ofa clock pulse.
Describe what tappens if the fip flop is a positive edge tirgered type?
,
6. An active HIGH input S -R htch has a 1 on the S iput and a 0 on the R iput. What sate is the
7. Inplement the logic equation $\mathrm{Y}=\mathrm{C}^{\wedge} \mathrm{BA} A^{\wedge}+\mathrm{CB}^{\wedge} \mathrm{A}+\mathrm{CBA}$ with a multipexer.
(where $C^{\wedge}$ stand for for C complenent)
8. Equivalent Gray code representation of AC2H.
9. What does a PLL consist of?

We advice you to know the design of PLL as questions pertaining to this may be asked

## - Software Section


2. In tertiary tree, which has three chids for every node, ifthe umber of inemal nodes are N , hen the total number of fleaf odes are

```
3. Explain the term localiy ofreference?
```

4. Whatis the language used for Artificial Inelligence
Ans:
.
5. Whati the ch
Ans: Unicodo
6. chara $=0 \times \mathrm{xAA}$
$=$ int

printlico $\times$,b);
What is the ouput of the above program segment?
7. struct st $\{$ struct $\{$ struct $\{$ int $x ;\} s 2\} s 3\} y$, How does one accesss $x$ in the above given structure
deffition?
8. Why there is on recursion in Fortran
Ans. There is no dyanamicallocation.
9. What is the worst case complexity of Quick sort?
10. What will be sequence of operating system activites when an interrupt occurs?
11. In a sequential search, what is the average mumber of comparisons it takes to search through h
Ans: $(n+1)$ ) 2 .

${ }^{13} \mathrm{~A} \mathrm{~A}$ binary search tree with hode information as $1,2,3,4,5,6,7,8 \mathrm{i}$ s given. Write the result obtained
12. A binary search tre with node information an
on preordertareval of fle binary search tree?
Ans $: 53124768$
13. I ssize of the physical menory is $232-1$, then what is the size of the virtual memory?
14. $\mathrm{S}>\mathrm{AOBA}->\mathrm{BBOD} \mathrm{B}-\mathrm{AA} \mid 1$
How many strings of lenght 5 are poss

15. In memory mapped IIO how is IO is accessed ?
16. What is the use of ALE in 8085 ?
Ans. To to thth he the lwer byte ofthe address
17. If fte logical memory of 8 X 1024 is mapped into 32 fames, then the number of bis for the logical

| address ate |
| :---: |
| Ans. 13 |

20. Context fiee grammar is usefill for which purpose ?
21. In temary number represesnation, mumbers are represented as $0.1,-1$ -
as 1 bar). How is 3529 represented in temary number represenation?
22. There are processes which take $4,1,8,1$ machine cycles respectively If thee

23. The minimum fequeneny of operation is specified for every processor because.

b) dynamii menory refesching
24. For rinked ist inplementation, which search is not applicable ?
Ans: Binary search.

Ans: 133
25. Explain set associatively of cache?
26. Write the postix form of the following ex-pression : $A+[(B+C)+(D+E) * F / G$
. What is the finction of the linker?
27. void (fint y)

structs
$\underset{\substack{\text { int } \\ \text { floatp } \\ \text { fic }}}{ }$
when free (prt) is executed, what will lappen?
28. To concatenate two linked lists strings, the order is $O(1)$ is obained for what kind of list

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