

## Previous Year Cimtrix Systems Aptitude, Technical Test Questions

### APTITUDE

**Q1.** How can one find a cycle in the linked list? IF found how to recognize the cycle and delete that cycle?

**Q2.** Can we change the page layout in ASP.NET 2.0 as Grid Layout like in previous version.

**Q3.** There are 25 horses and only five tracks in a race. How do you find the second coming horse of all the 25 horses, provided there is no stop clock? (obviously, a horse cannot participate more than once in a race).

**Q4.** What is penetration testing

**Q5.** What the SUBSTR(SQUARE ANS ALWAYS WORK HARD,14,6) will return ?

**Q6.** A number of 9 digits has the following properties: ? The number comprising the leftmost two digits is divisible by 2, that comprising the leftmost three digits is divisible by 3, the leftmost four by 4, the leftmost five by 5, and so on for the nine digits of the number i.e. the number formed from the first  $n$  digits is divisible by  $n$ ,  $2 \leq n \leq 9$ . ? Each digit in the number is different i.e. no digits are repeated. ? The digit 0 does not occur in the

## Previous Year Cimtrix Systems Aptitude, Technical Test Questions

number i.e. it is comprised only of the digits 1-9 in some order.  
Find the number.

**Q7.** What is the difference between a copy constructor and an overloaded assignment operator?

### TECHNICAL

**Q1. What is the output of this statement ?**

```
printf("%d",printf("%d %d",2,2) & printf("%d %d ", 2, 2));
```

- a. 22222
- b. 22221
- c. It will give an error during compilation

**Q2. What is the output of this code snippet**

```
main()  
{ int *p[10];  
printf("%d %d ",sizeof(*p),sizeof(p));  
}
```

**Q3. Function inlining is best used when**

- a. In a small recursive function
- b. In large function where number of variables used is small
- c. In a large function where there are many loops and number of variables used is small
- d. None of these

## Previous Year Cimtrix Systems Aptitude, Technical Test Questions

**Q4. If there is a large quantum in round robin it will be equivalent to**

- a. First come first serve
- b. Shortest job first
- c. Least recently used
- d. None of these

**Q5 . which of the following will lead to starvation**

- a. Fifo
- b. Shortest job first
- c. Round robin
- d. Least recently used

**Q6. If the address space is 192.168.36.16/28 which of the following is the broadcast ip**

- a. 192.168.36.0
- b. 192.168.36.1
- c. 192.168.36.255
- d. 192.168.36.31

**Q7. If there are 9 yellow balls, 3 red balls and 2 green balls. What is the probability that the second ball picked is yellow given the first ball is yellow**

- a. 8/13
- b. 9/13
- c. 8/14
- d. 9/14

## Previous Year Cimtrix Systems Aptitude, Technical Test Questions

**Q8. How many processes are created in this snippet?**

```
Main()  
{  
Fork();  
Fork() && fork () || fork ();  
Fork ();  
}
```

- a. 15
- b. 19
- c. 21
- d. 27
- e. 31

**Q9. Which of the following is TRUE about the declaration `const char * p`**

- a. the pointer cannot be changed but the value to which it points can be changed
- b. the value is constant but the pointer can be changed
- c. neither the value nor the pointer can be changed
- d. none of these

**Q10. If F and L are the pointers to the first and last elements in a linked list, then which of the following operations is dependent on the length of the list?**

- a. delete the first element in the list
- b. insert a new element as a first element
- c. delete the last element of the list
- d. add a new element at the end of the list