(PAPER) YAHOO PAPER -'C'Written Test (2007)

1. What is the output of the following code?
x=0;y=1;
for(j=1;j<4;j++){
x=x+j;
y*=j;
}

2. There is a 200 miles long tunnel. one train enters the tunnel at a speed of 200mph while the other trains enter the tunnel in the opposite direction at a speed of 1000 mph. A bee travels at a speed of 1500 mph enters the tunnel goes to and back until it reaches the train. What is the distance covered by the bee when the two train collides (the bee survives)

3. List the two advantages of views.

4. Which layer is encryption and decryption done

5. What are the various modes used to send data over the network

6. Write a query to display the name of the students whose total marks is divisible by 25 (total marks may be 175, 200, 150...)

7. P(S1)
a++;
P(S2)
v++;
V(S2)
V(S1)
P-wait, V-signal, S1 and S2 are semaphores. Consider two threads running. Is there a deadlock .If yes in which situation does the deadlock occur.

8. How do you find the port number of the remote host?

9. (Date; who)>logfile

Date; who>logfile
What is the difference between the two statements.
10. How do you find the machine MAC address

11. Write the set operators that are used for select.

12. Write a single command to find and delete all the files that are older than 1 day (modification time)

13. A is a 3*4 matrix and B is 4*5 matrix. What is the number of additions and multiplications performed to obtain the resultant matrix

14. What is the output
#!/bin/perl

kill -0 pid

15.
```
#!/bin/perl
echo $_
```

16.
```
#!/bin/perl
kill $$
echo "hello world"
```

17. List different schema/database objects

18. Randomization is good for which algorithm(quick sort, heap sort, selection sort, hashed table, ...)

19. Describe the language in the following regular expression (a*a) b+b

20. In an I-node what is not there (file type, file name, size, owner)

21. If the probability of work done by three persons are 1/3, 2/5, 5/12. Then what is the probability that the work is completed.

22. Given Id, author, creation time, size, links, web page, description
Bring it in 2nd normal form

23. Consider a heap containing numbers 10, 20, 30, 40, 80, 60, 70 such that numbers are in ascending order from the leaf to the root. If 25 is to be inserted what is the position.(A[1], A[2], A[3], A[4])

24.
```
#!/bin/perl
var=///
aaaa
echo '$var'
```

25. Krishna tosses a one-rupee coin and a rupee coin. He announces that one is head. But the result is not announced. What is the probability that the other coin is head?

26. In database sort the student id and the course id for each student. Which is the best possible solution.
- Sort the student id using a stable algorithm and then sort the course id using unstable algorithm
- Sort the student id using a unstable algorithm and then sort the course id using stable algorithm
- Sort the course id using a stable algorithm and then sort the student id using unstable algorithm
- Sort the course id using a unstable algorithm and then sort the student id using unstable algorithm

1. In a village in each family they give birth to children till they get a boy. IF girl child they try again. What is the ratio of boys to
girls.

2. 2n+1 numbers in a list except for 1 num all had duplicates, how to find duplicate in O(n)

3. In 1000 wine bottles stack 10 are poisoned given 10 rats what is the minimum number of tries to find the poisoned one. Rat dies once it licks the poisoned wine.

4. Write 1,3,6,4 using +,-,*,/ to get 24 (no repeat of numbers)

5. Which is the DS used in dictionary mode in mobile (t9)

6. Which is DS used for chess program...to predict move each and every time..

7. There are $1070 dollars how to split them into bags such that asked for any denomination from $1 to $1070 , u must b able to give without opening bag...

MOSTLY ASKED QUESTIONS

1. First fit issues...

**2. Algorithm to partition set of numbers into two s.t. diff bw their
sum is min and they hav equal num of elements**

**3. Prog: given Numerator & Denominator.... print 0.3333333333 as .(3)
0.123123 as .(123)**

Courtesy : YAHOO!