

## VIRTUSA

I am herewith sending the Virtusa paper held on 11th feb 2004 at Hyderabad.

Virtusa Paper.

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section-A (5\*2=10 marks)

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1. Pick out the Odd word out:

a. CDBFE , JIHLK , OMQRP , WUXVY

2. Neem, Team, Starter, Commit.

Ans:

Reason:

3. 101 , 101 , 107 , 119 , 137 , \_\_\_\_\_

section-B (4\*5=20 m)

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1. Arrange the numbers 1 to 9 in any way to obtain the sum 100.

a) Use nos 1 to 9 in the natural order of occurrence.

b) use all the 4 operators and parathesis.

Ans:  $((1+2)/3)+4+(5*6)-7+(8*9)$

2. There are animals like goat, sheep and cow. one goat and seven sheeps eat as much as one

cow eats. Also, three goats and one cow eat as much as eleven sheeps. If there is some fodder

which is sufficient for a cow for three days, then for how many days will that fodder feed the goat.

3. There is a sphere. The volume of the sphere is  $(\pi * \theta)$  and the surface area is  $(\pi * \gamma)$  where  $\theta$  and  $\gamma$  are five digit numbers. find the radius of the sphere.

section -C (15 m)

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write a brief account on the measures to be taken to against the US law of stopping outsourcing to India.

section -D (4\*10=40)

write a prg in any language:

1. Write a function to accept a number 'n' and

a) if n is negative then return -1.

b) if n is positive and perfect number then return  $\sqrt{n}$ .

c) if n is positive and not a perfect no. then return  $n(n+1)/2$

2. Write a prg to print in the format

1

2 2

3 3 3

4 4 4 4

5 5 5 5 5.

3.double fn(double z,int y)

```
{  
  double a =1.0;  
  while(cond)  
  {  
    if (y%2==1)  
      a=a*z;  
      y/=2;  
      z*=z;  
    }  
    return a;  
  }  
}
```

what does the function do an how do you eliminate the shortcomings of the function.

4.Write a prg to generate the next number (ex: $143=1^2+4^2+3^2=26$ )repeat this sequence till you get 1 or 4.

B) (15 m)

Write a prg to accept two time stamps in the given format HH:MM:SS using appropriate datatypes and find the difference between the time stamps in seconds.

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Someone asked abt virtusa interview.

We had virtusa campus test 3 months back in our university. At that time i qualified in written test. And I went for interview. Interview they conducted in their office. first there was GD, than HR interview and than technical. More preference on Technical.

GD they given topic for us Western Culture Vs Indian Culture. Be cool. Dont be dominative. HR was very easy. He just discussed abt my french beard? Almost we had discussion half an hour. It was nice. Than Technical. For us Mr. Ashokan taken this. He is long beard person, intelligent one.

More he stressed on question paper which i written at written test. He was only concentrating on 'C' programming and some logic questions. He asked me questions like algorithm for "Robot to bring full of bucket wate from tap". Here we have to consider all cases like leakage to bucket, whether tap is already on, already bucket is full etc. Remember this is the main one.

I didnt selected in virusha, but i think this information helps some one to get into virtusa.

I WISH U ALL THE BEST.