

2011 Nagarro Placement Paper:-

1. $\sin x + \sin 2x = 1$, then $\cos 2x + \cos 4x = ?$

a) 1 b) 3 c) 0 d) none

2. $\cos 30^\circ / \sin 10^\circ + \cos 59^\circ / \sin 31^\circ = ?$

a) 1 b) 2 c) 3 d) 4

3. $x^{a+b} \cdot x^{b+c} \cdot x^{c+a} / (x^a \cdot x^b \cdot x^c)^2 = ?$

a) 0 b) 1 c) 8 d) 5

4. length of minute hand is 5.4 cm, area covered by this in 10 min is ?

a) 50.97 b) 57.23 c) 55.45 d) 59.14

5. Write a program to check whether 2 strings given by the user are anagram strings or not.

For example:

str1: Are you engineer.

str2: You are engineer.

Output: yes

str1: Am i fine.

str2: I,m fine.

Output: No

str1: Am i fine.

str2: I am fire.

Output: No

6. Write a program to find out the combination of an element of each array gives a result 0.

For example:

array 1: {2,1,4,7}

array 1: {3,-3,-8,0}

array 1: {-1,-4,-7,6}

Output:

pairs =

{2,-8,6}
{1,3,-4}
{4,-3,-1}
{7,0,-7}

7. Write a program to get the subsequence of a bit 1 and 0 given in a array of bits.

For example:

array={1,0,1,1,0,1,1}

Output={1,0,1,0}

array={1,1,0,1,0,0,1,1}

Output={1,1,0,1,0,0}

8. Write a program to get the first non repeating alphabet from the given string by the user

For example:

string = abcba

Output : c

string = abcdecbae

Output : d

string =naveen

Output : a

9. if $\sec^2 A = 4xy/(x+y)^2$

Ans:- This is possible only for $x=y$;

10. if $\sec A \cdot \sin A = 0$ then what will be the Value of $\cos A$.

Ans:- $\cos A = \cos 0 = 1$

11. What will be the Max. Value of $f(x) = (\sin x - \cos x)^2$

Ans:-1

12. If $\tan A = 2 - \sqrt{3}$ then what will be the value of $\tan (90-A)$

Ans:- $2 + \sqrt{3}$

13. if $\log [\log (x+4)-4] = 0$

7 5 then what will be the value of x.

Ans:-4

14. What will effect on the Area of a triangle if the side of triangle just double from their original Side.

15. Two question based on ven diagram.

16. One Question on profit and loss such as if a shopkeeper sell 960 gm sugar in respect of 1000g at same price then what will there profit .Ans:- 25/6

17. How Many no. Between 1000 to 9900 in which four digits of number are different.

18. if $xy = 6$ and $x^2y + xy^2 + x + y = 9$ then find out the Value of $x^2 + y^2$

19. First Question was base on Blood relation . it was such that if A, B, C, D, E, F, have relation with J as Father, Brother, Daughter, Aunt , Mother, Wife Unorderly and there was given condition such as

1) A and B have not same Sex

2) D, E have Same Sex

3) E born Before A.

20. An array of size 5X5 is given to us. The elements from 1 to 25 are to be inserted in the array, such that starting from a particular position for an element i, the next element i+1 can be inserted only at the mentioned positions (u,v), and if these all positions are occupied then it returns giving a count of how many positions have been occupied in the array:

$(u,v) = (x+/-3, y)$

$(u,v) = (x, y+/-3)$

$(u,v) = (x+/-2, y+/-2).$

Nagarro palcement paper In Banglore campus recruitment in 2011

Q:-1 find the all possible combination of digits ranging 1 to 9 whose sum is 10, no digit shud be repeated in any combination.

1234

127

136

145

19

235

28

37

46

Q:-2 if there is a matrix $A[][]$ of order m and another matrix $B[][]$ of order n such that $(m > n)$ you have to find the occurance of matrix $B[][]$ in matrix $A[][]$.

$A[5][5] = 1, 2, 3, 4, 5$

5,4,1,9,7

2,1,7,3,4

6,4,8,2,7

0,2,4,5,8

B[3][3]=1,9,7

7,3,4

8,2,7

this matrix B exist in A

Q:-3 Take an array of 100 elements and fill it with the no 1 to 100 such that one no shud skip and one no shud repeated. Find the no which is repeated and which is skipped.

Technical Part

Q1. Write a program to check whether 2 strings given by the user are anagram strings or not.

For example:

str1: Are you engineer.

str2: You are engineer.

Output: yes

str1: Am i fine.

str2: I,m fine.

Output: No

str1: Am i fine.

str2: I am fire.

Output: No

Q2. Write a program to find out the combination of an element of each array gives a result 0.

For example:

array 1: {2,1,4,7}

array 1: {3,-3,-8,0}

array 1: {-1,-4,-7,6}

Output:

pairs =

{2,-8,6}

{1,3,-4}

{4,-3,-1}

{7,0,-7}

Q3. Write a program to get the subsequence of a bit 1 and 0 given in a array of bits.

For example:

array={1,0,1,1,0,1,1}

Output={1,0,1,0}

array={1,1,0,1,0,0,1,1}

Output={1,1,0,1,0,0}

Q4. Write a program to get the first non repeating alphabet from the given string by the user

For example:

string = abcba

Output : c

string = abcdecbae

Output : d

string =naveen

Output : a

Aptitude - Numerical Father Agnel School, New Delhi - 9 February 2010 NAGARRO 9th FEBRUARY AT NEW DELHI

Hello friends, Navneet here from Meerut. I gave Nagarro paper.

APTITUDE:

1. $\sin x + \sin 2x = 1$, then $\cos 2x + \cos 4x = ?$

- a) 1
- b) 3
- c) 0
- d) none

2. $\cos 30^\circ / \sin 10^\circ + \cos 50^\circ / \sin 30^\circ = ?$

- a) 1
- b) 2
- c) 3
- d) 4

3. $x^a \cdot x^b \cdot x^c \cdot x^d / (x^a \cdot x^b \cdot x^c) \cdot x^d = ?$

- a) 0
- b) 1
- c) 8
- d) 5

4) length of minute hand is 5.4 cm, area covered by this in 10 min is ?

- a)50.97
- b)57.23
- c)55.45
- d)59.14

Programmin section 1.30 hrs 4 question.

1)Seat Planing

Write a function for seat allocate and seat reserved.Seat allocate array and seat reserver array.Seatallocate array is of 10*20 and each row and column represent A1,A2.....;B1,B2.....;.....J1,J2... andso on i.e row are A to J whereas col starts from 0 to 19.Each cell in the table represent either 0 or1. 0 rep seat available , 1 repr seat reserved. Seat allocation starts from highest to lowest.And row j is highest, i is second highest and so on.Max 20 seats can be booked at a time. if seat is available print the seat no like "B2" i.e (2 row, 3 col)and seat is booked." otherwise Print "Seat is not available."

2) A string of charater is given.Find the highest occurance of a character and display that character.

eg.: INPUT: AEGBCNAVNEETGUPTAEDAGPE

OUTPUT:

E

or

I,J(if equal occurance)

3)Remove all the blank spaces between character.Matrix is of 10* 10.

eg: INPUT

| N | A | | V | | T

| | G | U | | P |

| T | | | A | |

OUTPUT:

| N | A | V | T | |

| G | U | P | | |

| T | A | | | |

4)write a function to give demonstrate the functionality of 3d in 1d. function prototye:

change(int value,int indexX,int indexY,int indexZ, int [] 1dArray);

value=what is the date; indexX=x-asix indexY=y-axis indexZ=z-axis and 1dArray=in which and where

the value is stored.

Whole Testpaper Pce, Jaipur - 19 February 2009 NAGARRO 19th FEBRUARY AT JAIPUR

Hello Friend, Ajay Here. I just decribing here at Paper Procedure Which held at PCE, Jaipur on 19 feb.2009, Mainly for nagarro Selecton procedure 3 round conduct

In Round first.

40 Question in 90 minutes.

There Mainly two Section.

Apptitude Section:-

Apptitude Section there was 40 question

This Section divide in two part.

1) Mathematics part:- (20 Question) Trignometry, Profit and loss, Ven diagram, Sphere, Trinagle problems

Some Question in Mathematic was such as

1) if $\sec^2 A = 4xy/(x+y)^2$

Ans:- This is possible only for $x=y$;

2) if $\sec A \cdot \sin A = 0$ then what will be the Value of $\cos A$.

Ans:- $\cos A = \cos 0 = 1$

3) What will be the Max. Value of $f(x) = (\sin x - \cos x)^2$

Ans:- 1

4) If $\tan A = 2 - (3)^{1/2}$ then what will be the value of $\tan (90 - A)$

Ans:- $2 + 3^{1/2}$

5) if $\log [\log (x+4) - 4] = 0$

7 5 then what will be the value of x .

Ans:- 4

6) What will effect on the Area of a triangle if the side of triangle just double from their original Side.

7) Two question based on ven diagram.

8) One Question on profit and loss such as if a shopkeeper sell 960 gm sugar in respect of 1000g at same price then what will there profit .Ans:- $25/6$

9) How Many no. Between 1000 to 9900 in which four digits of number are different.

10) if $xy = 6$ and $x^2y + xy^2 + x + y = 9$ then find out the Value of $x^2 + y^2$

2) Reasonong Part:- Mainly there was four question and each question divided in 5 Sub Question

1) First Question was base on Blood relation . it was such that if A, B, C, D, E, F, have relation with J as Father, Brother, Daughter, Aunt , Mother, Wife Unorderly and there was given condition such as

1) A and B have not same Sex

2) D, E have Same Sex

3) E born Before A.

Then Find out the following Answer.

2) Second Question was based on A Contract.

These All question from R.S. Agarrwal. So Please refer them for Practice because it is Very time Consuming Part.

Technical Paper:-

Second Paper of Round 1 total Technical. There Was four Question one Quest ion i Remember was such as

Q.1 A string of charater is given. Find the Continous Occurance of a character and display that character.

eg.: INPUT: AAAAAAEGBCNAVNEETGUPTAEDAGPE

OUTPUT:

A or if Same then A and D.

Q.2 One question was base on Hash Table related Teacher, Their topic,in A 20 days Period.

Q.3 Based on link list where one pointer Point the Next Node and Second Show their Sub Node.

To write a Function Which Return the largest integer Value.

Second part

1. a function input(int[] array) was given and we had to enter any number and the entered no./should convert into absolute no like 4578, 6789 , 1234 etc means the no should convert into/increasing nos.

2. A mXn matrix was given and rows and column were sorted as shown below then we had to write a function that search a desired entered no in the matrix .with minimum complexity

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

3. There is a array of 99 cells and we have to enter 1-100 elements in it , no two elements would repeat , so there is one no. missing because 99 cells and 1-100 nos. so we had to implement a function to find that missing no.

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