

Novell Sample Paper

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Company : Novell
Date :
College :

1). A beggar collects cigarette stubs and makes one full cigarette with every 7 stubs. Once he gets 49 stubs. How many cigarettes can he smoke totally.

Ans. 8

2). A soldier loses his way in a thick jungle at random walks from his camp but mathematically in an interesting fashion. First he walks one mile east then half mile to north. Then 1/4 mile to west, then 1/8 mile to south and so on making a loop. Finally how far he is from his camp and in which direction.

ans: in north and south directions

$$\frac{1}{2} - \frac{1}{8} + \frac{1}{32} - \frac{1}{128} + \frac{1}{512} - \text{and so on}$$
$$= \frac{1}{2} \left(\frac{1 - (-1/4)}{1 - (-1/4)} \right)$$

similarly in east and west directions

$$1 - \frac{1}{4} + \frac{1}{16} - \frac{1}{64} + \frac{1}{256} - \text{and so on}$$
$$= \frac{1}{1 - (-1/4)}$$

add both the answers

3). how 1000000000 can be written as a product of two factors neither of them containing zeros

Ans $2^9 \times 5^9$ (check the answer)

4). Conversation between two mathematicians:

first : I have three children. The product of their ages is 36 . If you sum their ages . it is exactly same as my neighbour's door number on my left. The second mathematician verifies the door number and says that the not sufficient . Then the first says " o.k one more clue is that my youngest is the youngest" Immediately the second mathematician answers . Can you answer the question asked by the first mathematician?

What are the children ages? ans 2 and 3 and 6

5). Light glows for every 13 seconds . How many times did it between 1:57:58 and 3:20:47 am

ans : $383 + 1 = 384$

6). 500 men are arranged in an array of 10 rows and 50 columns . ALL tallest among each row are asked to fall out . And the shortest among THEM is A. Similarly after resuming that to their original positions that the shortest among each column are asked to fall out. And the longest among them is B . Now who is taller among A and B ?

ans A

7). A person spending out $\frac{1}{3}$ for cloths , $\frac{1}{5}$ of the remaining for food and $\frac{1}{4}$ of the remaining for travels is left with Rs 100/- . How he had in the beginning ?

ans RS 250/-

8). there are six boxes containing 5 , 7 , 14 , 16 , 18 , 29 balls of either red or blue in colour. Some boxes contain only red balls and others contain only blue . One sales man sold one box out of them and then he says " I have the same number of red balls left out as that of blue ". Which box is the one he sold out ?

Ans : total no of balls = 89 and $(89-29)/2 = 60/2 = 30$
and also $14 + 16 = 5 + 7 + 18 = 30$

9). A chain is broken into three pieces of equal lengths containing 3 links each. It is taken to a blacksmith to join into a single continuous one . How many links are to be opened to make it ?

Ans : 2.

10). Grass in lawn grows equally thick and in a uniform rate. It takes 24 days for 70 cows and 60 for 30 cows . How many cows can eat away the same in 96 days.?

Ans : 18 or 19

11). There is a certain four digit number whose fourth digit is twice the first digit.

Third digit is three more than second digit.

Sum of the first and fourth digits twice the third number.

What was that number ?

Ans : 2034 and 4368

If you qualify in the first part then you have to appear for the second i.e the following part.

Part 2.

1. From a vessel on the first day, $\frac{1}{3}$ rd of the liquid

evaporates. On the second day $\frac{3}{4}$ th of the remaining liquid evaporates. what fraction of the volume is present at the end of the 11 day.

2. an orange glass has orange juice. and white glass has apple juice. Both equal volume 50ml of the orange juice is taken and poured into the apple juice. 50ml from the white glass is poured into the orange glass. Of the two quantities, the amount of apple juice in the orange glass and the amount of orange juice in the white glass, which one is greater and by how much?

3. there is a 4 inch cube painted on all sides. this is cut into no of 1 inch cubes. what is the no of cubes which have no painted sides.

4. sam and mala have a conversation. sam says i am certainly not over 40. mala says i am 38 and you are atleast 5 years older than me. Now sam says you are atleast 39. all the statements by the two are false. How old are they really.

5. ram singh goes to his office in the city, every day from his suburban house. his driver mangaram drops him at the railway station in the morning and picks him up in the evening. Every evening ram singh reaches the station at 5 o'clock. mangaram also reaches at the same time. one day ramsingh started early from his office and came to the station at 4 o'clock. not wanting to wait for the car he starts walking home. Mangaram starts at normal time, picks him up on the way and takes him back home, half an hour early. how much time did ram singh walk.

6. in a railway station, there are two trains going. One in the harbour line and one in the main line, each having a frequency of 10 minutes. the main line service starts at 5 o'clock. the harbour line starts at 5.02a.m. a man goes to the station every day to catch the first train. what is the probability of man catching the first train

7. some people went for vacation. unfortunately it rained for 13 days when they were there. but whenever it rained in the morning, they had clean afternoon and vice versa. In all they enjoyed 11 mornings and 12 afternoons. how many days did they stay there totally

8. escalator problem repeat

9. a survey was taken among 100 people to find their preference of watching t.v. programmes. there are 3 channels. given no of

people who watch
at least channel 1
" " 2
" " 3
no channels at all
at least channels 1 and 3
" " 1 and 2
" " 2 and 3
find the no of people who watched all three.

10. albert and fernandes they have two leg swimming race. both start from opposite end of the pool. On the first leg, the boys pass each other at 18 mt from the deep end of the pool. during the II leg they pass at 10 mt from the shallow end of the pool. Both go at const speed. but one of them is faster. each boy rests for 4 sec to see at the end of the i leg. what is the length of the pool.

11. T H I S Each alphabet stands for one
 I S digit, what is the maximum value T

 can take

 X F X X
 X X U X

 X X N X X

1. an escalator is descending at constant speed. A walks down and takes 50 steps to reach the bottom. B runs down and takes 90 steps in the same time as A takes 10 steps. how many steps are visible when the escalator is not operating.

2. Every day a cyclist meets a train at a particular crossing. the road is straight before the crossing and both are travelling in the same direction. cyclist travels with a speed of 10 Kmph. One day the cyclist comes late by 25 min. and meets the train 5km before the crossing. what is the seppd of the train.

3. five persons muckerjee, misra, iyer, patil and sharma, all take then first or middle names in the full names. There are 4 persons having I or middle name of kumar, 3 persons with mohan, 2 persons withdev and 1 anil.

--Either mukherjee and patil have a I or middle name of dev or misra and iyer have their I or middle name of dev
--of mukherjee and misre, either both of them have a first or middle name of mohan or neither have a first or middle name of

mohan

--either iyer or sharma has a l or middle name of kumar hut not both.

who has the l or middle name of anil

Reading comprehension

5. a bird keeper has got Ppigeon, M mynas and S sparrows. the keeper goes for lunch leaving his assistant to watch the birds.
a. suppose $p=10$, $m=5$, $s=8$ when the bird keeper comes back, the assistant informs the x birds have escaped. the bird keeper exclaims oh no! all my sparrows are gone. how many birds flew away.

b. when the bird keeper come back, the assistand told him that x birds have escaped. the keeper realised that atleast2 sparrows have escaped. what is minimum no of birds that can escape.

6. select from the five alternatives A,B,C,D,E

AT THE end of each question ,two conditions will be given. the choices are to filled at follows.

- if a definete conclusion can be drawn from condition 1
- if a definete conclusion can be drawn from condition 2
- if a definete conclusion can be drawn from condition 1 and 2
- if a definete conclusion can be drawn from condition 1 or 2
- no conclusion can be drawn using both conditions

1. person 1 says $N < 5$

person says $n > 5$

person 3 says $3N > 20$

person 4 says $3n > 10$

person 5 says $N < 8$

whaT IS value of N

a) 1. no of persons who speak false being less than no of persons who tells the truth.

2. person 2 is telling the truth.

b) 1. no of persong telling the truth is greater than no of persons telling lies

2. person 5 is telling the truth.

7. there are N coins on a table. there are two players A&B. you can take 1 or 2 coins at a time. the person who takes the last coin is the loser. a always starts first

--1. if $N=7$

a) A can always win by taking two coins in his first chanse

b) B can win only if A takes two coins in his first chance.

c) B can always win by proper play

d) none of the above

--2. A can win by proper play if N is equal to

- a) 13 b) 37 c) 22 d) 34 e) 48 ans. e.
--3. B can win by proper play if N is equal to
a) 25 b) 26 c) 32 d) 41 e) none
--4. if $N < 4$, can A win by proper play always

8. Two turns have certain peculiar characteristics. One of them always lies on Monday, Wednesday, Friday. The other always lies on Tuesdays, Thursdays and Saturdays. On the other days they tell the truth. You are given a conversation.

person A-- today is Sunday my name is Anil
person B-- today is Tuesday, my name is Bill

answers for selected questions

- | | |
|---------------------|---------------------|
| 2. equal | 1. 150 |
| 3. 8 | 2. 60 kmph |
| 4. 37(M), 41(S) | 3. Mukherjee |
| 5. 45 min. | 8. today is Tuesday |
| 6. 0.8 | |
| 7. 18 | |
| 11. T max value = 4 | |

Verifone Interview.

Here, we had three single man panels. They are seeing the subjects taken and asking questions in that mainly. They didn't go deep into any subject and they were just asking overview. When they catch any new word they are asking about it.

These are some of the questions asked to us. (not to a single person.)

What is a finite Automata.

what is a Turing machine.

how many processors are there in a Pentium microprocessor. in Sparc.

difference between RISC and CISC.

is RISC always fast.

what is a real time system.

name some real time OS

what are the characteristics of Real time OS.

is DOS a real time OS.

what is a kernel, shell.

what is binary search, traversal, hashing etc.

given a scenario what is the suitable data structure.

write a code to count the no. of 1's in a binary rep. of a number.
memory taken for char *, int * etc.
char *cp; int *ip; cp++,ip++ - what is the result.
compare the no. of bytes in unix and Dos for long char short int.
how to make programs portable on unix and Dos under such circumstances.
in c++, what is a constructor, destructor etc.
what is friend etc.

what is waterfall model, prototype model etc.
what is testing. what is unit testing, integration testing etc.

What is indexing in databases?

What is atomicity?

Can recursive pgms be written in C++, Write a recursive pgm to calculate factorial in c++.

What is best data structure to store the processes info in a real time operating system?

VERIFONE

Verifone test Questions :

There are two parts :

1. Aptitude test : 15 Minutes, 20 Questions

Some questions are:

(not in order)

1. A question (first one) on addition of fraction of inches
a. was the answer

2. There were 36 chairs. how many ways can they be placed such that all rows have equal no. of chairs and atleast three chairs are there in each row and there are atleast three rows.
5 ways.

3. There are 27 balls, of which 1 is heavier. given a balance how many times you need to weigh to find out the odd ball.
3 Weighs.

4. Product of three consecutive nos. 210. What is the sum of two least numbers
11.

5. If the area of the square is increased by 69 % how much the length of the side will increase?
30%
 6. if the sum of five consecutive nos. 35? how many prime nos are there :
2 primes.
 7. if the length of the rectangle is reduced by 20% and breadth is increased by 20 % what is the net change ?
4 % decrease
 8. A question on sets.
There are some 20 Basketball players & 30 Football players, and 25 cricket players. 1 of them plays all the three games. 8 of them plays atleast two games. They are 50 altogether. How many of them plays none of the games.
 9. A question on directions.
B is 20 miles east of A. D is 30 miles east of C. E is 10 miles north of D. C is 20 miles north of B. How far E is from A?
- Some 3 questions on Reasoning like,
10. If you say that giving stock options to employees increases the productivity of the company, which of the following sentences support it.
A) Giving stock options increases the morale of the employees
..
..
etc.,
 11. Gamblers comes to the Amusement parks. There are some Amusement parks in each city. There are some gamblers in each city. So what can you infer.
A) Amusement park always have gamblers.
..
..
etc.,

2. Technical Questions.

- i. Electrical & Electronics : 15 Questions
 - 1.A Circuit with nand gates. (ans. may be XOR)
 - 2.CMRR. relates to (options not in order)
voltage follower
non inverting amplifier
inverting amplifier
integrator
 3. Given a circuit , give the output.

(ans. may be triangular wave.)

4. o/p of an assembly code.
multiply by 11.
5. how to handle asynchronous events.
 - a) polling
 - b) interrupt
 - etc.

ii) Data Structures, Algo., & Complexity theory : 5 questions

iii) OS : 5 questions

iv) Networks and Hardware: 5 questions

v) Databases and Misc.: 5 questions

vi) C Pgm. : 5 questions
some more 10 questions.

1. if W is a sequence of strings without a and W' is its reversal then WaW' is accepted by:

Context Free Grammars

2. Whether all recursive program can be written iteratively?
yes.
3. What data structure you will use if you want to go to first record from the last and vice versa?
doubly linked circular list
4. Given 10000 nos. and 48MB Memory. What is the complexity of the efficient sorting algo.? (the algo. is not mentioned)
 $O(N)$
5. Given a C code and ask what it does?
code was something similar to Bubble sort and that particular code does the sorting in Descending order and the complexity is $O(n^2)$ (which is the next question).

6.

A code like this is given.

- a. `for(i=0;i<num;i++)`
- b. `for(i=num;i>0;i--)`

Assuming no code optimization and assume that the microprocessor has flags etc. which one is correct.

b will execute faster.

7. If there are too many page faults what is the problem?
8. To ensure one pgm. doesnt corrupt other pgm. in a Multi-pgm enviornment what you should do?
9. Which one you will use to implement critical section?
Binary Semaphore
10. Which one is not needed for Multi-processing. enviornment?
options are: virtual memory,security,time sharing,none of the above.
11. Which one is not done by Data link layer ?
bit stuffing, LRC,CRC,parity check
12. Which one is not related to Data link layer?
13. Which one is not suitable for client-server application?
tcp/ip,message passing,rpc,none of the above.
14. What is SQL.
Procedural Relational DB Query Language.
15. Indexing in databases give you
options were like 1.efficient deleting and inserting
2.efficient deleting.
etc.
16. `int a=1,b=2,c=3;`
`printf("%d,%d",a,b,c);`
What is the output?
17. Scope of Static Variable
in a file.
18. `for(i=0; i<=10;i++,printf("%d",i)); +- (+- is there in the questions)`
20. Real Time Os should have
a)fast context switch
b)Virtual memory etc.
21. Messages are transferred in some E71 code, where after 7 bits of data, 1 bit of stopping data is to be transferred. what should be done.
options were like
a) send directly
b) send after encoding

etc.

22. There are three processes A, B, C. A sends data to B. B removes the header stores it and sends the data to C. C returns it to B. B receives the message, identifies the message and adds the header that was stored and sends to A. B receives the messages from C such that atmost 'm' messages B

are pending.

Identify the best Data Structure.

23. A question in compiler about the heap and stack allocation of memory.

24. struct

```
{
    char a[3];
    int b;
}x;
char *cp;
```

a) size of x is 7.

B

b)

c)

d) cp takes the size of a pointer.

(d) is the ans.

INFOSYS

1) There are two balls touching each other circumferencially. The radius of the big ball is 4 times the diameter of the small ball. The outer small ball rotates in anticlockwise direction circumferencially over the bigger one at the rate of 16 rev/sec. The bigger wheel also rotates anticlockwise at N rev/sec. what is 'N' for the horizontal line from the centre of small wheel always is horizontal.

2)
$$\begin{array}{r} 1\ 2\ 3\ 4 \\ +\ 3\ 4\ 5\ 5 \\ \hline 4\ 6\ 8\ 9 \\ -\ 2\ 3\ 4\ 5 \end{array}$$

$$\begin{array}{r} \text{-----} \\ 2344 \\ + 1254 \\ \text{-----} \\ 3698 \end{array}$$

Q) Strike off any digit from each number in seven rows (need not be at same place) and combine the same operations with 3 digit numbers to get the same addition. After this strike off another digit from all and add all the No.s to get the same 2 digit No. perform the same process again with 1 digit No.s. Give the ' no.s in 7 rows at each stage.

3) there is a safe with a 5 digit No. The 4th digit is 4 greater than second digit, while 3rd digit is 3 less than 2nd digit. The 1st digit is thrice the last digit. There are 3 pairs whose sum is 11. Find the number. Ans) 65292.

4) there are 2 guards Bal and Pal walking on the side of a wall of a wearhouse(12m X 11m) in opposite directions. They meet at a point and Bal says to Pal " See you again in the other side". After a few moments of walking Bal decides to go back for a smoke but he changes his direction again to his previous one after 10 minutes of walking in the other(opposite) direction remembering that Pal will be waiting for to meet.If Bal and Pal walk 8 and 11 feet respectively, how much distance they would have travelled before meeting again.

5) xxx)xxxxx(xxx
 3xx

 xxx
 x3x

 xxx
 3xx

Q) Find the 5 digit No.

Hint: 5 is used atleast once in the calculation.

6) A fly is there 1 feet below the ceiling right across a wall length is 30m at equal distance from both the ends. There is a spider 1 feet above floor right across the long wall eqidistant from both the ends. If the width of the room is 12m and 12m, what distance is to be travelled by the spider to catch the fly? if it takes the shortest path.

7) Ramesh sit around a round table with some other men. He has one

rupee more than his right person and this person in turn has 1 rupee more than the person to his right and so on, Ramesh decided to give 1 rupee to his right & he in turn 2 rupees to his right and 3 rupees to his right & so on. This process went on till a person has 'no money' to give to his right. At this time he has 4 times the money to his right person. How many men are there along with Ramesh and what is the money with poorest fellow.

8) Question related to probabilities of removing the red ball from a basket, given that two balls are removed from the basket and the other ball is red. The basket contains blue, red, yellow balls.

9) Venkat has 1 boy & 2 daughters. The product of these children age is 72. The sum of their ages give the door number of Venkat. Boy is elder of three. Can you tell the ages of all the three.

ANALYTICAL

1) L: says all of my other 4 friends have money
M: says that P said that exact one has money
N: says that L said that precisely two have money
O: says that M said that 3 of others have money.
P: L and N said that they have money.
all are liars. Who has money & who doesn't have?

2) A hotel has two, the east wing and the west wing. Some east wing rooms but not all have an ocean view (OV). All WW have a harbour view (HV). The charge for all rooms is identical, except as follows

- * Extra charge for all HV rooms on or above the 3rd floor
- * Extra charge for all OV rooms except those without balcony
- * Extra charge for some HV rooms on the first two floors & some EW rooms without OV but having kitchen facilities. (GRE mod I Test 3-question 1J-22)

3) Post man has a data of name surname door no. pet name of 4 families. But only one is correct for each family. There are a set of statements & questions.

4) 4 couples have a party. Depending on the set of statements, find who insulted whom and who is the host of the party.

5) 5 women given some of their heights (tall, medium, short) Hair (long, plaited), stars (Black or Brown), sari, 2 medium, 2-short. Tall -> no sari. Plaited -> medium. Answer the combinations.

1) A person has to go both Northwards & Southwards in search of a job. He decides to go by the first train he encounters. There are trains for every 15 min both southwards and northwards. First train towards south

is at 6:00 A.M. and that towards North is at 6:10 .If the person arrives at any random time,what is the probability that he gets into a train towards North.

2) A person has his own coach&whenever he goes to railway station he takes his coach.One day he was supposed to reach the railway station at 5 O'clock.But he finished his work early and reached at 3 O'clock. Then he rung up his residence and asked to send the coach immediately. He came to know that the coach has left just now to tje railway station. He thought that the coach has left just now to the railway station.He thought that he should not waste his time and started moving towards his residence at the speed of 3mi/hr.On the way,he gets the coach and reaches home at 6 o'clock.How far is his residence from railway station.

3)Radha,Geeta&Revathi went for a picnic.After a few days they forgot the date,day and month on which they went to picnic.Radha said that it was onThursday,May 8 and Geeta said that it was Thursday May 10.Revathi said Friday Jun 8.Now one of them told all things wrongly,others one thing wrong and the last two things wrongly.If April 1st is tuesday what is the right day,date and month?

Novell network paper

=====

The paper consists os three sections.

1. aptitude 15 questions 20 min.
2. system concepts 20 questions 20 min.
3. 'c' 15 questions 20 min.

NOTE:::::

I'm sendin the questions, somany have no answers. U do check the answers for all the given questions also.

All questions are MULTIPLE CHOICES ONLY.

U do try to cover the related topics to get some understanding. In interview They are asking C C++ Operating system concepts and Networks.

They will ask about Ur interesting subjects, U try to have good grip on those intresting subjects.

They selected 11 out of 55 students.

They asked about c c++ project work and OS,NETWORKS. But they selected only 2 , one from CS and another is BTech ECE.

SECTION 1 is main factor selection to the interview

In the interview you should be very active. And should be frank to say no also. One CS student said that he doesn't know NETWORK and he hasn't taken NETWORKS subject. But he has selected.

OK BEST OF LUCK.

section 1:;;;

* GRE book test paper 3 section 5
question no. 8 to 12 (ships WXYZ starting on dec. 23rd.....)

* 5 programs are scheduled from Monday to Saturday, Monday is not a holiday, PQRST are the programs. The day before P is a holiday, and some other clues are given, we have to find the sequence (4 questions)

ANS: Tuesday is the holiday

P comes on Wednesday,

U can do the remaining very easily.

* Suppose U is the prisoner, there are two guards. Who will tell the truth or one will tell the truth. There is a gate for liberty and another for hell.

Some questions are given, like

i. will U tell the truth?

ii. will the other tell the truth or not??

iii. will both of U and R tell the truth??

iv. will both of U be lying??

v. -----

they gave a, b, c, d, and asking about which sequencing is sufficient to find the gate for liberty??

(I can't give exact thing)

* There are WIFE and HUSBAND at one side of a river. They have one child. They want to cross the river. The child can't be alone. The boat boy won't permit more than one to cross the river, what is the correct way to cross the river??

* There are 7 targets, A, B, and C has to shoot them. All should be shot consecutively.

1. The no. of chances for A and B are not less than 2,

2. for C there is only one chance.
3. A can't shot 3 times consecutively.
4. B is permitted to shoot in even chances only.

They have given some 3or 4 questions on this

*

section 3::

1.Max value of SIGNED int

a. b. c. d.

2.One questin is given, long one, to find the answer U should be familiar with the operation as follows

```
int *num={10,1,5,22,90};
```

```
main()
```

```
{
```

```
int *p,*q;
```

```
int i;
```

```
p=num;
```

```
q=num+2;
```

```
i=*p++;
```

```
print the value of i, and q-p, and some other operations are there.
```

```
}
```

how the values will change??

3. One pointer diff is given like this:

```
int *(*p[10])(char *, char*)
```

asked to find the meaning.

4. char *a[4]={"jaya","mahe","chandra","buchi"};

what is the value of sizeof(a)/sizeof(char *)

a. 4 b.bytes for char c-- d.--

(we don't know the answer)

5. void fn(int *a, int *b)

```
{
```

```
int *t;
```

```
t=a;
```

```
a=b;
```

```
b=t;
```

```
}
```

```
main()
```

```
{
```

```
int a=2;
```

```
int b=3;
fn(&a,&b);
print the values os a and b;
}
```

what is the output--- out put won't swap, the same values remain.

- a. error at runtime
- b. compilation error
- c. 2 3
- d. 3 2

6.

```
#define scanf "%s is a string"
main()
{
printf(scanf,scanf);
}
```

what is the output.

ANS : %s is string is string

```
7. i=2+3,4>3,1;
printf("%d",i);
```

ans is 5 only.

```
8. char *p="abc";
char *q="abc123";
```

```
while(*p=*q)
{
printf("%c %c",*p,*q);
}
```

- a. aabbcc
- b. aabbcc123
- c. abcabc123
- d. infinite loop (this may be correct)

```
9. printf("%u",-1)
```

what is the value?

- a. -1
- b. 1
- c. 65336
- d. --

(maxint value-1 I think, check for the answer)

```
10. #define void int
int i=300;
void main(void)
{
```

```
int i=200;
{
  int i=100;
  print the value of i;
}
print the value of i
}
what is the output?
```

may be 100 200

11.

```
int x=2;
x=x<<2;
printf("%d ",x);
```

ANS=8;

12.

```
int a[]={0,0X4,4,9}; /*some values are given*/
```

```
int i=2;
```

```
printf("%d %d",a[i],i[a]);
```

what is the value??? (may be error)