

TATA POWER SED

Amarkant Dey

- ① Tell me about yourself.
- ② Tell me about your CDAC project
- ③ WAP for fibonacci series using recursive function.
- ④ WAP for printing prime numbers upto 10000.
- ⑤ Write a query to display all the subjects ^{studied by} ~~of~~ a student ~~in the~~ in the year 2015.

Panel 1

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Swechha Waghmare

1) In detail information about the project.

(We had project in AngularJS & WCF)

2) Which is your strong subject.

3) Database

Q. Design a database for trains system. Write a query to print all the trains which halt at dadar & nashik. (just halt at the stns. & not the source or destination).

4) Tell me about your work profile in previous office.
(As I had experience)

5) In WCF → could I put the parameters in the URL & go to a page (related to security in project)

6) What do you like about programming?

7) Why did you choose to come in IT? (since I was from EXTC.)

8) Logical Program (Prime nos. between 1 to 1000)

Panel 2

1) STL

2) Linked List, Stack, Queue, Doubly Linked List.

Technical Test (Paper-Pen)

- Basics of C, C++, O/p for the above code (kind of Quest's)
- Database
- Java
- Dotnet
- OS
- MS Excel.

Aptitude Test (Online)

- Apti
- English
- Logical
- Personal Reasoning (What will you do kind of questions)
- Puzzles

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Technical

- ① Tell me about yourself.
- ② Why switch (since from mechanical background)
- ③ Write a programme to print all prime numbers from 1 - 10000.
- ④ Tell me about project.
- ⑤ (Spring framework)
 - a) What is the flow of project
 - b) Explain flow of spring
 - c) Why hibernate, mySQL
 - d) What was striking in your project.
 - e) Role in project.
- ⑥ Tell me something about Data structures you know
- ⑦ What are your expectations from the company.
- ⑧ Strengths, weakness

HR

- ① Tell me something about yourself
- ② Strengths, weakness
- ③ How do you upgrade your knowledge.
- ④ What are important things needed in an organisation. (Dedication, perseverance, hardwork)
- ⑤ Which makes me more happy?
- ⑥ Which makes me more sad?
- ⑦ ~~which is~~ Tell me about family life and people.

Mohd. Nabeel Shaikh

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- ① Tell me about yourself.
- ② Explain your B.E. final year project.
- ③ Explain your CDAC project.
- ④ Draw the Database tables of your project.
- ⑤ Explain overloading and overriding.
- ⑥ Write a program to implement STACK (Data structure).

6/02/16

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Vinod Ghongade

Technical

- C++
- 1) Data Structure (***) (Double linklist, Queue, stack, Single linklist, Binary search tree) ?
 - 2) UML (Unified Modeling Language) ?
 - 3) Pure Virtual Method in C++ ?
 - 4) Operator Overloading ?
 - 5) Threading in Java ?
 - 6) Bubble, Selection, insertion Sort ?
 - 7)

Database

- 1) 1st 2nd 3rd Normalization ?
- 2) Procedure, functions, Triggers ?
- 3) Query on Inner (Equi) Joins ?

Java

- 1) Threading ?
- 2) Static block ?
- 3) Synchronized keyword ?

* Project info.

C++, Datastructure **

- ① What is reference?
- ② What is Pointer?
- ③ Difference between call by value & call by reference?
- ④ Is there any copy constructor concept in c++? Explain shallow copy & deep copy?
- ⑤ Explain static & dynamic casting in c++?
- ⑥ Explain generic queue?
- ⑦ Explain Single LinkedList, Double LinkedList, circular LinkedList?
- ⑧ What is Pure virtual method in c++?
- ⑨ operator overloading $\rightarrow m1+100, ++m1$?
- ⑩ Explain Flow of Program execution in c++?
- ⑪ What is STL?
- ⑫ What is Smart Pointer

Java

- ① Explain reference in java?
- ② What is Thread? How we can achieve threading in java?
- ③ How to open file in Binary mode?
- ④ What is MOM? Explain PTP & Pub-sub
- ⑤ What is Data Hiding? How can you do using oops concept (which concept \Rightarrow Encapsulation)
- ⑥ What is Encapsulation?
- ⑦

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Q-1 what is normalization

Q-2 write program to ~~print~~ take one prime no, of user & print next prime no of that number

Q-3 Given an array of 20 elements, write a program to sort it.

Q-4 write a program for operator overloading

```
Complex
{
    num
}
```

write for ~~C~~ $C3 = C1 + C2$;
 $C3 = C1 + 3$;
 $C5 = 5 + C1$;

Q-5 Asked about final year project & role ,
Current project of CDAC.

Q-6 - Given told to design database to student & different course in case for tuition (maths, physics, bio)

Q-7 - Given a database and told to write two queries to retrieve the data

Q-8 - tell me about yourself.

- 1) what is oops.?
- 2) Examples on inheritance, polymorphism?
- 3) STL (why we are using STL) ?
- 4) why Process is heavyweight ?
- 5) Different scheduling Algorithm ?
- 6) on linux ~~so~~
- 7) why process based and thread based ?

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Date → 28/7/15

Sneha Barwode.

Name → Ravi Rashmi

Date - 28/07/15

Company - Tata Power SED

- 1) Write a program to calculate mean of the data in the file and save it back to the file.
- 2) Write a program to insert data in a binary tree or linked list & delete a selected value.
- 3) Write a program to calculate prime no next to a given prime no in most efficient way.
- i) Your role in B.E project.

- ① What is the difference between Static and Dynamic Memory Allocation?
- ② What are function pointers?
- ③ What is 'fstream'? Where do we use it?
- ④ Where have you used 'abstract ^{class}' & 'inheritance' in your project?
- ⑤ Which data structure have you used in your project?
- ⑥ Which design pattern have you implemented in your project?
- ⑦ How will you implement Generics if you do your project in C++?

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1) what is not in C which is new concepts in C++ ?

2) operator overloading

class complex

$c1 + c2$ (object)

$c1 + 3$

$3 + c1$

code for it.

3) ~~read file~~ Read from file & calculate average of number which are inside file & write again in same file.

4) Tree traversal

code for delete data from tree.

① String class with copy const & dest

② B-Tree such that- left child is smaller than root and right child is always greater than root

i/p \rightarrow in order op \rightarrow pre-order.

③ Count maximum consecutive of 1's in given string.

④ WAP to convert given expression into postfix