**Technical Interview Preparation**

***.NET Programming***

1. Define variable and constant.
2. What is a data type? How many types of data types are there in .NET ?
3. Mention the two major categories that distinctly classify the variables of C# programs.
4. Which statement is used to replace multiple if-else statements in code.
5. What is the syntax to declare a namespace in .NET?
6. What is the difference between constants and read-only variables that are used in programs?
7. Differentiate between the while and for loop in C#.
8. What is an identifier?
9. What does a break statement do in the switch statement?
10. Explain keywords with example.
11. Give the syntax of using the while loop in a C# program**.**

***JAVA Basic***

1. What is the difference between a constructor and a method?
2. What is the purpose of garbage collection in Java, and when is it used?
3. Describe synchronization in respect to multithreading.
4. What is an abstract class?
5. What is the difference between an Interface and an Abstract class?
6. Explain different way of using thread?
7. What is an Iterator?
8. What is static in java?
9. What is final class?
10. What if the static modifier is removed from the signature of the main() method?

***DBMS***

1. What is database?
2. What is DBMS?
3. What is a Database system?
4. What are the advantages of DBMS?
5. What are the disadvantage in File Processing System?
6. Describe the three levels of data abstraction?
7. Define the "integrity rules"?
8. What is extension and intension?
9. What is System R? What are its two major subsystems?
10. How is the data structure of System R different from the relational structure?
11. What is a view? How it is related to data independence?

***Operating System***

1. Explain the concept of Reentrancy?
2. Explain Belady's Anomaly?
3. What is a binary semaphore? What is its use?
4. What is thrashing?
5. List the Coffman's conditions that lead to a deadlock.
6. What are short, long and medium-term scheduling?
7. What are the typical elements of a process image?
8. What is the resident set and working set of a process?
9. List out some reasons for process termination.
10. What is FtDisk?