**-: C# & SQL Basic : -**

**C#**

1. Basic programming fundaments
   1. What is programming
   2. Why programming
   3. Type of programming
   4. Advantage of using Object Oriented Programming.
2. Introduction to C#
   1. History
   2. Versions
   3. Syntax and programming environment.
3. Datatype
   1. Value type
   2. Reference type
4. Variable & operators
5. Typecasting & boxing unboxing
6. Control flow statements
   1. If else, else if, nested if
   2. Switch case
   3. Loop- for loop, while loop, do while, foreach.
7. Array-
   1. Array advantage
   2. Declaration and manipulations
   3. Type of array.
8. Functions
   1. Pre-define function
      1. String & string builder
      2. Math function
      3. Character handling
      4. Date & time function.
9. Object oriented Programming.
   1. What is object oriented programing basics and advantages
   2. Pillar of OOP.
   3. Class & objects
      1. Constructor & destructor
      2. Property
      3. Methods
      4. Static member
      5. Indexer
   4. Inheritance
      1. Type of inheritance
      2. Sealed & base keyword
   5. Polymorphism
      1. Overloading
      2. Overriding
      3. Virtual and new keyword advantages.
   6. Abstraction
   7. Encapsulation
   8. Interface

10. namespace

11. collection-

1. non-generic collection

* + - 1. ArrayList
      2. Stack
      3. Queue
      4. SortedList
      5. HashTable

2. Generic collection

* 1. List
  2. Stack
  3. Queue
  4. SortedList

12. Exception & Exception Handling

13. File Handling

**SQL SERVER**

1. What is SQL
2. Type of DBMS
3. SQL VS MS-SQL
4. Data Definition Language(DDL)
5. Create
6. Alter
7. Drop
8. Truncate
9. Sp\_rename
10. Data manipulation Language: -
    * 1. Insert
      2. Update
      3. Delete
      4. Select
11. SQL built-in function-
    * 1. String
      2. Math
      3. Date time
      4. Convert function
12. Clauses
    * 1. Where
      2. Order by
      3. Group by
      4. Top
      5. Having
13. Operators
    * 1. Arithmetic
      2. Logical- and, or, not, like, not like, between, not between, in etc.
      3. Set operator
         1. Union
         2. Union all
         3. Intersect
         4. Except
14. Join
15. Inner join
16. Outer join
17. Left outer join
18. Right outer join
19. Full outer join
20. Self & cross join
21. View
22. T/SQL
    * 1. Stored Procedure
      2. Stored function
23. Temporary Table
24. CTE Table
25. Trigger
26. Index