

-: C# & SQL Basic : -

C#

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

- i. Overloading
 - ii. Overriding
 - iii. Virtual and new keyword advantages.
 - f. Abstraction
 - g. Encapsulation
 - h. Interface
10. namespace
11. collection-

1. non-generic collection

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

2. Generic collection

- a. List
- b. Stack
- c. Queue
- d. 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)
 - I. Create
 - II. Alter
 - III. Drop
 - IV. Truncate
 - V. Sp_rename
- 5. Data manipulation Language: -
 - i. Insert
 - ii. Update
 - iii. Delete
 - iv. Select
- 6. SQL built-in function-
 - i. String
 - ii. Math

- iii. Date time
 - iv. Convert function
 - 7. Clauses
 - i. Where
 - ii. Order by
 - iii. Group by
 - iv. Top
 - v. Having
 - 8. Operators
 - i. Arithmetic
 - ii. Logical- and, or, not, like, not like, between, not between, in etc.
 - iii. Set operator
 - 1. Union
 - 2. Union all
 - 3. Intersect
 - 4. Except
 - 9. Join
 - I. Inner join
 - II. Outer join
 - III. Left outer join
 - IV. Right outer join
 - V. Full outer join
 - VI. Self & cross join
 - 10. View
 - 11. T/SQL
 - i. Stored Procedure
 - ii. Stored function
 - 12. Temporary Table
 - 13. CTE Table
 - 14. Trigger
 - 15. Index
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