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| 1 | Introduction |
| 2 | Design Patterns |
| 3 | What do you prefer C# or VB.Net |
| 4 | Front End scripting language |
| 5 | OOPs |
| 6 | Can Abstract class have a constructor? What is the use? |
| 7 | Can you create private method in abstract class? Where do we use it? |
| 8 | Suppose I have private method in abstract class, what error do we get? |
| 9 | Support one class: 3 - private, public, protect - if we create object |
| 10 | What is the use of private class? |
| 11 | Can we inherit interface in abstract class? Can we implement it? |
| 12 | What is member hiding? |
| 13 | Class B inherit class A. Both have same public interface void method. What happens on compilation? |
| 14 | Compile time polymorphism? |
| 15 | In case method over riding, how will compile time polymorphism work? |
| 16 | Does static class have a constructor? Where do we use it? Explain practical scenario. |
| 17 | How to create singleton pattern? |
| 18 | How will use initialize static class? |
| 19 | Which design pattern have you worked with? |
| 20 | Can we define property in interface |
| 21 | By defant which identifier is assigned to interface |
| 22 | Can we define difference between array list and linked list? |
| 23 | Out parameters & Reference parameters |
| 24 | Are you aware about class with dbnull value? |
| 25 | Can we have nullable class? |
| 26 | Difference between Object |
| 27 | Any specialized collection in C# |
| 28 | What is hash table? |
| 29 | What is dictionary / key-value pair? |
| 30 | Why is hash table needed? |
| 31 | Difference App Object / Session object? |
| 32 | Different Session / Storage / Cookie. Which one do we use and why? |
| 33 | Difference between == & === |
| 34 | ORM? Entity Framework |
| 35 | Lazy Loading? How does it work? |
| 36 | Exception handling |
| 37 | What is model binders? |
| 38 | Row - number key word? What is the use? Which scenario do we use it? |
| 39 | What is CTE? Why do we need CTE if we have temp table? |
| 40 | What is covered index? |
| 41 | Have you defined any covered index? |
| 42 | Difference between Primary key and Unique key? |
| 43 | Where do you see yourself after 3 years |
| 44 | Any experience on Cloud based? |
| 45 | What is block storage? |
| 46 | What is docker image? |
| 47 | Polymorphism can achieve by interface? |
| 48 | Base class having method/function with two int parameters, drive class with one float parameter, what polymorphism is it? |
| 49 | Base class having method/function with two int parameters, drive class with two ref parameter, is it acceptable polymorphism? |
| 50 | Static constructor v/s default constructor |
| 51 | Can a public class have all public, private and static constructor, what is order/sequence of execution of this constructors |
| 52 | Can abstract class inherit in public class? |
| 53 | Can static class inherit in public class? |
| 54 | Can private class inherit in private class? |
| 55 | What is Generic? Native classes in Generic i.e. examples. |
| 56 | What classes provided by .Net framework? |
| 57 | Datatype vs Class. |
| 58 | List is a class or datatype? |
| 59 | Array vs List. |
| 60 | What is extension methods? In list provided method is by list or LINQ. |
| 61 | Can we write try without catch block? |
| 62 | Can we write finally with try block? |
| 63 | Order of exception in .net framework |
| 64 | What is throw in .net framework? |
| 65 | What is http verbs? |
| 66 | Put vs Post. |
| 67 | Can we update record with POST method? |
| 68 | What is prototype in JS. |
| 69 | What is Promise? |
| 70 | Var vs Let keyword in JS? |

Java script

1) Promises – explain with example, how it works, promise call back v/s Ajax call back, Why we should use promise.

2) Closer

3) difference between == and ===

4) undefined == null, undefined ===null

5) defer Attribute

6) extends keyword

7) specify FromBody and FromUri

8) prototype

C#

1) Abstract class having virtual method, Can we implement at derived class without override keyword.

2) Garbage collector, IDisposable interface

3) Generic

4) IEnumberable and IQueryable difference

5) Type of generic available at C#

6) difference (first, firstOrDefault and single, SingleOrDefault)

7) extension method (when to create, how to create)

8) re-throw exception

9) What happened if class have same method name with same parameters but return type is different, will it execute or error?

MVC

1) Filters in MVC, How to implement Authorization filter, How do we customize (run any custom code) at the time of login.

2) Routing in MVC (attribute base routing, any other routing technique at MVC)

SQL Server

1) Difference between primary key vs unique key

2) Joins – cross join

3) temp table and table variable

1. Briefly explain 4 pillar of oops
2. OOPs questions related to interface.
3. new and override diff
4. A class without any variable and method, if we create object of such class and call ToString() method. what would it print.

Public class Employee()

{

}

Employee objEmp = new Employee();

objEmp.ToString() à What it will print()

1. Use of interface (to enforce coding standard)
2. What is unmanage code, any disadvantages ?
3. Tools available on AzureDev Ops
4. AzureDev and agile methodology – when should we use
5. Type of return type from linq expression

Employee object = we need firstname and last name

1. A is base class of B. both have same method

A objA = New B();

objA.Print() à Which method will call (from A or B class)

1. Error handling à

We have one program with only one try catch block at C# and handle DivideByZeroException exception. We don’t have any more code at the program.

However program still throw DivideByZeroException. Could you tell me possible reason for it ?

1. What is the difference between int.Parse and int.TryParse methods?
2. How can multiple people work on same file (any other way then Partial class)?

4 developers want to work on same class, what should you do?

How would you restrict them for creating method with same name?

1. string & stringbuilder difference.
2. Prototype in javascript (Why and when should we use);
3. Explain splice () method.
4. MVC filters – (What are filters, order in which it execute)

**2nd set of Questions:**

Oops and C# related questions

1. Describe Abstraction and Encapsulation  
2. Difference between Abstract classes and Interfaces  
3. Can abstract classes have constructors?

4. Abstract Classes with static constructor.

5. Can Interfaces be inherited to another Interfaces.

6. Constructor execution in class hierarchy

7. Readonly vs Const Keywards

8. Internal vs Protected Internal

DotNet Standard vs DotNet Core

1. Difference between both

2. Start up class related questions

3. Webhost builder related questions

4. Different Json files.

5. Advantages and perks of DotNet Core

6. How the deployed exe (built in .net core framework) works. Do we need to install any libraries for application to run?

SQL:  
1. Keeping the connection open is good or the open close connection technic is better option.

Question regarding Agile Methodology.

3rd set of Questions:

1)Define oops

2)Define Dependency injection

And how to use in dot net core

3)what is interface when to use

How to implement log in dot net core

And where to store logs

4)How to implement exception handling in dot net core

5)what is promise

6)ver vs let

7) filter vs map

8) cluster vs non cluster index

9) CTE vs Temp table

10) how to do exception handling in sql

And where to store these exception

11) what will happen if bulk insert in table and we create trigger for this

12)view vs view index

13) materialized view

14) types of access modifier

15) What is Entity Framework and how to implement like code first and database base approach.