CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
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Date: July 18, 2006

Microsoft .NET (60 Minutes)

1. The .NET framework consist of
   1. ADO.NET
   2. XML
   3. Threading
   4. All of the above

2. The top layer of .NET includes
   1. IO
   2. Windows forms
   3. Net
   4. None of the above

3. JIT compilers convert MSIL into
   1. native code
   2. byte code
   3. hexadecimal code
   4. None of the above

4. In .NET, garbage collection is done in
   1. Top layer
   2. .NET framework
   3. CLR
   4. No garbage collectioin

5. What will be the output of the following C# code for intValue = 1

   ```
   Switch (intValue)
   {
       case 1:
           Console.WriteLine ("1");
       case 2:
           Console.WriteLine ("2");
       default:
           Console.WriteLine ("0");
   }
   ```
   1. Compile time error
   2. Run time error
   3. 1
   4. 120

6. What will be the output of the following C# code

   ```
   using System;
   public class Conversion{
   public static int Main()
   {
       bool b;
       int i,j;
       b = true;
       i = b;
       b = false;
       j = b;
       Console.WriteLine(i);
       Console.WriteLine(j);
       return 0;
   }
   }
   ```
   1. 1, 0
   2. -1, 0
   3. Compile time error
   4. Run time error

7. What will be the output of the following C# code

   ```
   using System;
   public class Conversion{
   public static int Main()
   {
       bool b;
       int i;
       b = false;
       i = b.ToInt32();
       Console.WriteLine(i);
       return 0;
   }
   }
   ```
   1. 0
   2. Compile time error
   3. Run time error
   4. None of the above

8. Following operators can be overloaded in C#
   1. Arithmetic operators
   2. Equality operator
   3. Inequality operator
   4. All of the above

9. Following datatypes are available in C#
   1. decimal
   2. byte
   3. ushort
   4. All of the above

10. The default type of parameters passed to function in C# is
    1. by value
    2. by reference
    3. no default value
    4. None of the above

11. Which of the following executes the query, and returns the first column of the first row in the resultset returned by the query
    1. ExecuteNonquery ()
    2. ExecuteScalar()
    3. ExecuteReader()
    4. ExecuteXMLReader()

12. DataSet belongs to which of the following namespaces?
    1. System.Data.OleDb
    2. System.Data.SqlClient
    3. System.Data.Odbc
    4. System.Data

13. The _____is a read-only, forward-only stream of data from a database
    1. DataReader
    2. DataSet
    3. DataView
    4. DataTable

14. What's the .NET class that allows the retrieval of a data element using a unique key?
    1. ArrayList
    2. IList
    3. Hashtable
    4. None of the above

15. Which of the following keywords is used to prevent your class from being inherited by another class in C#?
    1. Final
    2. sealed
    3. abstract
    4. None of the above

16. What's the implicit name of the parameter that gets passed into the set method/property of a class?
    1. param
    2. this
    3. value
    4. None of the above
17. Structs are _____variables
    1. Value-type
    2. Reference-type
    3. Both of the above
    4. None of the above
18. In an _____class, all methods must be abstract
    1. Abstract
    2. Interface
    3. Sealed
    4. All of the above
19. _____ class is used for both debug and release builds
    1. Trace
    2. Debug
    3. Both
    4. None of the above
20. Will finally block get executed if the exception had not occurred?
    1. No
    2. Yes
    3. Some times
    4. Depends on Exception Type
21. What will be the output of the following C# code
    using System
    ```
    public class Sample
    {
        public static void ChangeValue (int y)
        {
            y = 20;
            return;
        }
        public static int Main()
        {
        int x= 10;
        ChangeValue (X);
        Console.WriteLine(X);
        Console.ReadLine();
        Return 0;
        }
    }
    ```
    1. 10
    2. 20
    3. Compile time error
    4. Run time error
22. The shared members in VB.NET are similar to _____ in C++
    1. Static members
    2. Local members
    3. Global members
    4. None of the above
23. VB.NET has following object capabilities
    1. Multiple Inheritance
    2. Shared members
    3. both A and B
    4. None of above
24. What will be the result of the following VB.NET code
    MsgBox ("Hello, World")
    1. Compile time error
    2. Run time error
    3. Displays string Hello, World
    4. Message box displaying Hello, World
25. What are the replacement for "Print" method of VB6.0 in VB.NET
    1. Write
    2. WriteLine
    3. WriteIf
    4. All of the above
26. Changes for Debug object in VB.NET is at
    1. No change
    2. System.Debug
    3. Diagnostics.Debug
    4. System.Diagnostics.Debug
27. In VB.NET, value of "True" becomes
    1. -1
    2. 0
    3. 1
    4. No numerical value
28. The following C# code
    sealed MyClass
    indicates
    1. The object can not be created
    2. No parent to the class MyClass
    3. No child to the class MyClass
    4. None of the above
29. Which of the following are CLS types
    1. System.Byte
    2. System.sByte
    3. Both A and B
    4. None of A and B
30. Which of the following are methods for System.Object
    1. Equals()
    2. GetHashCode()
    3. ToString
    4. All of the above
31. Which of these statements correctly declares a two-dimensional array in C#?
    1. int[,] myArray;
    2. int[][] myArray;
    3. int[2] myArray;
    4. System.Array[2] myArray;
32. What is boxing?
    1. Encapsulating an object in a value type.
    2. Encapsulating a copy of an object in a value type.
    3. Encapsulating a value type in an object.
    4. Encapsulating a copy of a value type in an object.
33. What is a delegate?
    1. A strongly typed function pointer.
    2. A light weight thread or process that can call a single method.
    3. A reference to an object in a different process.
    4. An inter-process message channel.
34. What is a satellite Assembly?
    1. A peripheral assembly designed to monitor permissions requests from an application.
    2. Any DLL file used by an EXE file.
    3. An assembly containing localized resources for another assembly.
    4. An assembly designed to alter the appearance or 'skin' of an application.
35. If a method is marked as protected internal who can access it?
    1. Classes that are both in the same assembly and derived from the declaring class

2. Only methods those are in the same class as the method in question.
3. Classes within the same assembly, and classes derived from the declaring class.
4. All of the above

36. Does VB support multiple inheritance?
1. Yes
2. No
3. Use Interface
4. Works but with conditions

37. Which method of VB.NET implements the functionality same as Destructor in C#
1. Dispose
2. Close
3. Finalize
4. Nothing

38. How do you create a separator in the Menu Designer in Windows Form
1. A hyphen '-'
2. Comma
3. Double quotes
4. None of the above

39. You have completed your program and are ready to begin testing your program. While testing, you need to see all error messages that are produced in a summarized form. Which control do you use to view the information described above?
1. ValidationError
2. ValidationSummary
3. ValidationMsg
4. ValidationProblem

40. Which DataTable property returns all rows and columns from a DataTable?
1. ReturnTable
2. TableView
3. ViewAll
4. DefaultView

41. Which of the following methods is used to display a modal dialog in windows form
1. ShowDialog
2. Show
3. Display
4. None of the above

42. Which of the following are methods or properties of System.Exception
1. Message
2. HelpLink
3. Both A and B
4. None of A and B

43. Which of the following are collection classes in System.Collections
1. Queue
2. Stack
3. Both A and B
4. None of A and B

44. Which of the following is not keyword in C#
1. sealed
2. Overrides
3. internal
4. abstrac

45. OleDbDataReader class can be returned by a call to the_____ method.
1. CallReader()
2. ExecuteReader()
3. Reader.Read()

4. Reader.GetString()

46. OleDbDataReader has a set of _____ methods that can be used to read columns.
1. Call
2. Get
3. Typesafe
4. Open

47. By Default Connection Pooling is_____.
1. Disabled
2. False
3. Enabled
4. None of the above

48. You use DataCommands to connect a connection Object with _____.
1. DataSet
2. Tables
3. DataAdapter
4. Database

49. In DataSet, _____ Object exposes a number of properties that you can use to validate your data.
1. DataRow
2. DataReader
3. DataColumn
4. Data

50. DataSet is used when we need to manipulate the data on the _____.
1. Server
2. DataSet
3. Client
4. Database