



**HCM-003-039502**

Seat No. \_\_\_\_\_

**B. Voc. (Sem. V) (CBCS) Examination**

**October - 2017**

**ACTECH - 5.2 : Programming With C#.NET**

**Faculty Code : 003**

**Subject Code : 039502**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

1 Answer the following questions : 20

- (1) MSIL stands for \_\_\_\_\_
- (2) How many constructors does a class have ?
- (3) \_\_\_\_\_ object is used to fill a DataSet/Data Table with query results in ADO.net.
- (4) Arrays in C# are \_\_\_\_\_ objects.
- (5) Code that targets the Common Language Runtime is known as \_\_\_\_\_
- (6) A \_\_\_\_\_ is a temporary set of data stored in the memory of the computer.
- (7) Write full form of : JIT \_\_\_\_\_
- (8) Is it possible for a class to inherit the constructor of its base class ?
- (9) Each column in a database table represents a \_\_\_\_\_.
- (10) Which keyword is used to allocate the memory for variable or object in C#.Net ?
- (11) Int keyword target to which .Net type \_\_\_\_\_?
- (12) What is an object ?
- (13) Write syntax to create object of the class ?

- (14) Write full form of : CLR \_\_\_\_\_
- (15) How can you prevent your class to be inherited further ?
- (16) \_\_\_\_\_ namespace is used to connect SQL server with C#.net.
- (17) Which method do you invoke on the SQL DataAdapter object to load your dataset with data?
- (18) Which property is used to find the number of elements currently present in an Array ?
- (19) Which of the class provides the operation of reading from and writing to the console in C#.NET ?
- (20) \_\_\_\_\_ is a bridge in between DataSet and Datatable.

**2** (A) Attempt the following : (Any **Three**) **6**

- (1) Explain Timer control.
- (2) Explain ReadLine( ) and Read( ) methods with example.
- (3) What is Property ? Explain Readonly Property and Writeonly Property.
- (4) What is Unmanaged Code?
- (5) Difference Between ADO and ADO.NET
- (6) Explain foreach loop in C#.net.

(B) Attempt the following : (Any **Three**) **9**

- (1) Explain Namespace with example.
- (2) Explain Visual Studio IDE.
- (3) Explain Various Access specifier with suitable example.
- (4) Explain Garbage Collection in detail.
- (5) Explain PictureBox with properties and methods.
- (6) Explain MDI Application concept with example.

(C) Attempt the following : (Any **Two**) **10**

- (1) Explain FontDialog with example.
- (2) What is Dotnet Framework ? Explain its features.
- (3) Explain SqlConnection class, SqlDataAdapter class and SqlCommand Class with example.
- (4) Explain data types in C#.
- (5) Explain Jagged Array with example.

**3** (A) Attempt the following : (Any **Three**) **6**

- (1) Explain write( ) and WriteLine( ) methods with example.
- (2) Explain SqlDataReader class with example.
- (3) What is delegate ? Explain.
- (4) What is polymorphism ? Explain with suitable example.
- (5) Differentiate : Sealed Class V/s. Abstract Class
- (6) Explain TextBox and label control.

(B) Attempt the following : (Any **Three**) **9**

- (1) Explain ExcuteNonQuery( ) and ExcuteScalar( ) with example.
- (2) Explain Exception Handling in C#.net.
- (3) Explain Metadata and Assemblies in details.
- (4) Explain in detail : Dataset and Datable
- (5) Explain Radio Button and Checkbox Control with example.
- (6) Explain ColorDialog Control with properties and methods.

(C) Attempt the following : (Any **Two**)

**10**

- (1) Explain DateTimePicker and ScrollbarControl with example.
- (2) Write a program to enter student email in textbox and delete a record from student table (stud\_id, stud\_fname, stud\_lname, stud\_email) table by pressing delete button.
- (3) Write a program to insert record in Student table (stud\_id, stud\_fname, stud\_lname, stud\_email) and after insert record display records in DataGridView.
- (4) Take one picture box and take one button. Display the image file into the Picture Box by clicking on that button with the help of the Open File Dialog. (Open file Dialog must be filtered as JPG, BMP image only).
- (5) Explain .NET components in detail.

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