



**MAK-003-039502**

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

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

**October / November – 2016**

**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) MDI Stands for \_\_\_\_\_
- (2) You cannot return multiple values from a function in C#.Net? Yes/No
- (3) Define Operator.
- (4) Write syntax to create object of the class.
- (5) Array of array is called \_\_\_\_\_
- (6) What is the index value of the first element in an array?
- (7) A function returns a value, whereas a subroutine cannot return a value. True/False ?
- (8) What is Array?
- (9) What is Managed code?
- (10) List out basic feature of OOP.
- (11) Which keyword is used to allocate the memory for variable or object in C#.Net?
- (12) How can you prevent your class to be inherited further?
- (13) Code that runs under the Common Language Runtime is known as \_\_\_\_\_
- (14) Visual Studio 2008 uses \_\_\_\_\_ version of .net framework.

- (15) The space required for structure variables is allocated on \_\_\_\_\_.
- (16) Define Class.
- (17) In which namespace, all .NET collection classes are contained?
- (18) Is it possible for a class to inherit the constructor of its base class?
- (19) Write full form of : CLR \_\_\_\_\_
- (20) Which class acts as a base class for all the data types in .net?

**2** (a) Attempt the following : (any **three**) **6**

- (1) What is the difference between arrays and collection?
- (2) Define Sealed Class and give example.
- (3) What is Jagged Array in C#? Explain with example.
- (4) Write a program to show and hide the form.
- (5) Explain Boxing and Unboxing with example.
- (6) Define (any two) : Structure, Array, Enumeration.

(b) Attempt the following : (any **three**) **9**

- (1) Define Polymorphism and give example.
- (2) Explain Indexer with example
- (3) Write a note on value type and reference type.
- (4) Differentiate : Dataset and Data Reader.
- (5) Differentiate: SDI / MDI.
- (6) Explain Method overloading and Method Overriding with example.

- (c) Attempt the following : (any **two**) **10**
- (1) Explain Common Dialog Controls with its type and example.
  - (2) Explain Data Adapter and Data table with/ Suitable example.
  - (3) Write a program to create console base application for Addition, Subtraction, Multiplication and Division of two numbers given by the user.
  - (4) Write a program in console application to swap two values without using third variable.
  - (5) Explain JIT Compiler in detail with its types.
- 3** (a) Attempt the following : (any **three**) **6**
- (1) What is the difference between a class and a structure?
  - (2) Explain Shared and Private Assemblies?
  - (3) What is Managed Code?
  - (4) Briefly explain Bitwise operator with example
  - (5) Explain Access Modifier in detail.
  - (6) Explain any one Conditional Statement in detail with example.
- (b) Attempt the following : (any **three**) **9**
- (1) What is the difference between public, static and void?
  - (2) Explain Menu strip control, Context menu with example.
  - (3) What is Type casting: give its types and explain with example.
  - (4) Differentiate : Sealed Class / Abstract Class.
  - (5) Explain Garbage Collector in detail.
  - (6) Draw and explain Compilation and execution process of .Net Code.

(c) Attempt the following : (any two) 10

- (1) Explain .Net Framework architecture and its Component in detail.
- (2) Give brief detail about the ADO.Net Connected and Disconnected Architecture.
- (3) List out the features of .net Framework. Explain any three detail.
- (4) Write a program which can insert and delete record from database.
- (5) Explain in detail Conditional and lopping Statement each with example.

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