

Paper Code: MCAE-26	Roll No.										

MCA
(SEM V) ODD SEMESTER EXAMINATION 2016-17
DOT NET FRAMEWORK & C#

[Time: 3 hrs.]

[Max. Marks: 100]

Note: Attempt All Questions. All Question carry equal marks.

Q1. Attempt any **TWO** parts. **(10X2=20)**

- a) Explain the architecture of Dot Net framework. Compare assemblies in Dot Net framework with COM objects.
- b) Briefly discuss the Dot Net class library. Explain the different web services available with .Net framework.
- c) What is the difference between CLS and CTS?

Q2. Attempt any **TWO** parts. **(10X2=20)**

- (a) What are events? Write a small program in C# that demonstrates the “key press” events.
- (b) Write short notes on any two
 - i) Life Cycle of Delegate
 - ii) Jagged Array
 - iii) System.Array.CopyTo () and System.Array.Clone ()
- (c) What is an indexer in C#? What do you mean by overloading? Explain with the help of an example that how an indexer can be overloaded?

Q3. Attempt any **TWO** parts. **(10X2=20)**

- (a) Define Socket. Also demonstrate TCP request and reply by giving example.
- (b) What is Exception Handling? How is it done in C#? Explain about the throwing exceptions.
- (c) Explain the process used to develop a MDI windows forms C# application. What are the different types of dialogs can be used with such an application?

Q4. Attempt any **TWO** parts. **(10X2=20)**

- a) (i) What are web services? Explain its architecture. What are asmx files?
(ii) How a distributed application is created in .Net framework?
- b) What are Windows services? What different editors can you use to create a windows installer package using Visual Studio?
- c) Write a C# program to sort the elements of an array in descending order.

Q5. Attempt any **TWO** parts. **(10X2=20)**

- (a) Define the attribute, Built-in-attribute and Custom attribute. How to create custom attributes.
- (b) Difference between private and shared assembly. How to create shared assemblies by creating a key file and signing the project to create a strong name for the assembly.
- (c) What are the uses of reflection? Explain. Also list down the classes and methods associated with reflection.