USN

Fifth Semester MCA Degree Examination, December 2012 **Topics in Enterprise Architecture - III**

Time: 3 hrs. Max. Marks:100

Note: Answer any FIVE full questions.			
1	a. b. c.	With a neat diagram, explain the basic building blocks of .NET platform. Explain the role of common intermediate language (CIL). What are its benefits? Discuss the role of response files and explain the basic output options of the C#	(08 Marks) (06 Marks) compiler. (06 Marks)
2	a. b. c.	With an example, explain different method parameter modifiers. Explain any three C# preprocessor directives. Explain the concept of static methods and static data with suitable examples.	(08 Marks) (06 Marks) (06 Marks)
3		Explain the following terms with an example with reference to C#: i) foreach; ii) verbatim; iii) internal; iv) enum. Explain the core methods of System-Object class. Differentiate between boxing and unboxing.	(08 Marks) (06 Marks) (06 Marks)
4	a. b. c.	What are the different methods of accessing private data fields by other class Explain with examples. Explain "is – a" and "has – a " relationship with respect to inheritance. How do you document your source code using XML? Explain XML format characters.	(08 Marks) (06 Marks)
5	a. b. c.	How can be build finalizable and disposable types in .NET Garbage Collector()? Explain the garbage collection optimization process in C#. Write a C# application to illustrate handling multiple exceptions.	(08 Marks) (06 Marks) (06 Marks)
6	a. b. c.	Explain the role of the following C# keywords with an example: i) Checked; ii) unsafe; iii) finally; iv) fixed. Illustrate with example, the various methods for obtaining interface references. Distinguish between shallow copy and deep copy.	(08 Marks) (06 Marks) (06 Marks)
7	a. h	Explain single cast and multicast delegates in C# with examples. What are events in C#2 Write a C# program to raise an event if the marks of a study.	(10 Marks)

- What are events in C#? Write a C# program to raise an event if the marks of a student is less than zero or greater than 100 while creating an instance of a student class comprising of (10 Marks) fields USN, studname, marks.
- Write the steps involved in building a shared assembly under .NET environment. How do 8 (10 Marks) you install/remove shared assemblies?
 - Write short notes on: b.
 - Operator overloading. i)
 - (10 Marks) ii) Multifile assembly.