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07MCA53

**Fifth Semester MCA Degree Examination, June 2012**

**Topics in Enterprise Architecture - II**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions.**

- 1 a. Explain the basic building blocks of .Net platform, with a neat block diagram. (12 Marks)  
b. Explain the types of assemblies and benefits of common intermediate language. (08 Marks)
- 2 a. Explain the command line compiler with output centric options of C# compiler. (08 Marks)  
b. Explain the members of System.Console with an example. How do you format console output? (12 Marks)
- 3 a. How do you establish member visibility in C#? Explain with an example. (08 Marks)  
b. Explain the iterative constructs and decision making constructs, with an example. (12 Marks)
- 4 a. Explain .Net array types. Give an example for the members of System.Araay class.(08 Marks)  
b. Explain the pillars of object oriented programming, with examples. (12 Marks)
- 5 a. How do you prevent inheritance? Explain with an example. (08 Marks)  
b. Explain classes, objects and reference with respect to object life time. Explain the garbage collection finalization process. (12 Marks)
- 6 a. How do you build finalizable and disposable types? Explain with an example. (08 Marks)  
b. Explain exception handling technique with an example, also explain the core members of System. Exception class. (12 Marks)
- 7 a. How do you implement interfaces? Explain building interface hierarchies and interfaces with multiple base interfaces with an example. (12 Marks)  
b. Explain the process of building cloneable and comparable objects, with an example. (08 Marks)
- 8 Write short notes on the following :
  - a. Delegates and events
  - b. Boxing and unboxing
  - c. Operator overloading
  - d. Delayed signing. (20 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.