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10MCA53

Fifth Semester MCA Degree Examination, Dec.2017/Jan.2018

Topics in Enterprise Architecture

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Which are the important building blocks of .NET platform? Explain. (08 Marks)
b. Explain the CTS data types and .NET metadata. (08 Marks)
c. What is .NET binaries? Explain. (04 Marks)
- 2 a. Write a C# program to get the following properties : (05 Marks)
(i) MachineName (ii) NewLine (iii) Processorcount
(iv) SystemDirectory (v) UserName
b. With an example, explain different method parameter modifiers. (06 Marks)
c. Explain the role of stringBuilder with example. (05 Marks)
d. Discuss Jagged Arrays in C# with program. (04 Marks)
- 3 a. How do you enforce encapsulation using accessors and mutators, class properties and static properties? (10 Marks)
b. Explain how do you prevent inheritance in C#. (04 Marks)
c. Discuss C# casting rules with examples. (06 Marks)
- 4 a. Explain the following properties with examples: (08 Marks)
(i) The TargetSite Property (ii) The Stack Trace Property
(iii) The HelpLink Property (iv) The Data Property
b. Differentiate between System-Level Exceptions and Application-Level exceptions. (04 Marks)
c. Explain Disposable objects and finalizable objects in C#. (08 Marks)
- 5 a. With program explain the System.GC type. (08 Marks)
b. Write a program in C# to demonstrate abstract class and abstract methods. (08 Marks)
c. Define interface. How do you get references to interface? Explain. (04 Marks)
- 6 a. Explain Clonable objects in C#. (10 Marks)
b. Discuss System Collections with example. (10 Marks)
- 7 a. What is meant by the .NET delegate type? Explain the concept with example code. (10 Marks)
b. Explain custom indexer in detail. (10 Marks)
- 8 a. Write the steps involved in building a shared assembly under .NET environment. How do you install/remove shared assemblies? (10 Marks)
b. Explain operator overloading in detail. (10 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.