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10MCA53

Fifth Semester MCA Degree Examination, Jun/July 2016

Topics in Enterprise Architecture - II

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain the building blocks of .NET platform. (09 Marks)
b. Explain the role of Assembly manifest. (06 Marks)
c. What are namespaces? How to access namespaces? (05 Marks)
- 2 a. With an example list out various output options that are provided to CSC-exe tool during compilation of C# programs. (06 Marks)
b. What are the advantages of C# preprocessor Directives? (04 Marks)
c. List out any six static members of system Environment class. Explain them with a C# program. (10 Marks)
- 3 a. Write a C# program to demonstrate the conversion between value types and Reference types. (08 Marks)
b. List out different members of System Object class. (06 Marks)
c. Explain different method parameter Modifiers in C# with an example. (06 Marks)
- 4 a. What is encapsulation? How it is enforced in C#? Explain with a suitable example. (08 Marks)
b. Explain the following in detail with example
i) virtual ii) Override iii) Readonly iv) Sealed (12 Marks)
- 5 a. List out any six members of system. Exception type (06 Marks)
b. List out the steps involved in building custom exceptions. (06 Marks)
c. What in system. GC type? List out the members of system. GC type. (08 Marks)
- 6 a. Define interface. Explain with an example. (05 Marks)
b. With example explain the following interfaces
i) IComparable ii) ICloneable. (10 Marks)
c. Explain the two operators "is" and "as" with example. (05 Marks)
- 7 a. How to define delegate in C#? Explain the concept with a suitable example. (10 Marks)
b. Create a class called student which contains, USN, student Name and also total marks obtained. Also overload comparison operators for comparing two students based upon their total marks obtained. (10 Marks)
- 8 Write short notes on the following
a. Private Assemblies
b. Shared Assemblies
c. Delay signing
d. Members of system. Multicast Delegate. (20 Marks)

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.