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06CS/IS761

Seventh Semester B.E. Degree Examination, December 2011

C # programming and .Net

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions. Selecting atleast TWO questions from each part.

PART – A

- 1 a. Explain the limitations and complexities found within the technologies prior to .Net. Briefly explain how .Net attempts to simplify the same. (10 Marks)
b. Explain the formal definitions of all possible CTS types. (10 Marks)
- 2 a. Explain the following, with respect to compilation of the C # program in command prompt.
i) referencing external assemblies ii) compiling multiple source files
iii) response files iv) generating bug reports. (10 Marks)
b. Explain C # preprocessor directives :
i) # region, # endregion ii) conditional code compilation. (05 Marks)
c. Write a C # program to generate Fibonacci series upto N. value of N is read from console. (05 Marks)
- 3 a. Write a C # program to arrange five names in the ascending order. Names are obtained from command line arguments. (06 Marks)
b. List the methods in system, object master node. Explain the functionality of the methods Equals, ToString and GetType. (10 Marks)
c. Explain the params modifier, with suitable code. (04 Marks)
- 4 a. Write a C # program to create a doubly linked list. Methods will be for inserting the node at front end, deleting the node from front end and displaying the contents of the list. (10 Marks)
b. Explain the following, with suitable code.
i) versioning class members ii) properties. (10 Marks)

PART – B

- 5 a. Mention the methods present in system. Exception base class. Explain TargetSite, StackTrace properties. (10 Marks)
b. Explain how to build a custom exception in C #, using suitable code. (10 Marks)
- 6 a. Define an interface. Explain how it is created in C #, with suitable example. (05 Marks)
b. Explain how interfaces can be used as polymorphic agents, with suitable code. (08 Marks)
c. Write an explanatory note on ICloneable interface, with examples. (07 Marks)
- 7 a. What are delegates in C #? Differentiate between the synchronous and asynchronous delegates, with an example. (10 Marks)
b. Enumerate the concept of events in C #. Explain with suitable code and example. (10 Marks)
- 8 a. Explain the steps involved in building multifile assembly, with an example. (10 Marks)
b. Explain shared assemblies and private assemblies, in detail, with necessary examples. (10 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.