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06CS/IS761

Seventh Semester B.E. Degree Examination, June/July 2011
C # Programming and ·Net

Time: 3 hrs. Max. Marks:100

Note: ***Answer FIVE full questions, selecting at least TWO questions from each part.***

PART – A

1 a. Explain features and building blocks of ▪ Net framework. **(10 Marks)**
b. Write a note on ▪ Net name space. **(04 Marks)**
c. Explain the role of the common intermediate language. **(06 Marks)**

2 a. Discuss the difference between value type and reference types. **(06 Marks)**
b. Explain how CSC ▪ exe compiler is used to build C# application. Explain any five flags with appropriate examples. **(06 Marks)**
c. Write a C# program to demoustrate use of Static and Read- only variables. **(08 Marks)**

3 a. Explain boxing and unboxing with examples. **(06 Marks)**
b. Explain the functions of system object class. Give overriden definition for Tostring( ) and Equals( ). **(08 Marks)**
c. Explain the following terms, with an example, with reference to C #.
i) foreach ii) params iii) verbatim. **(06 Marks)**

4 a. What is inheritance? How is it implemented in C#? **(06 Marks)**
b. State and explain the characteristics of abstract classes. **(08 Marks)**
c. Write a program to describe sealed class and sealed method. **(06 Marks)**

PART – B

5 a. Explain the different methods of file system. GC type. **(05 Marks)**
b. Explain with examples interface hierarchy. **(07 Marks)**
c. What is an interface in C# and how is it different from polymorphism in C++? **(08 Marks)**

6 a. Define the following keywords with program example :
i) try ii) throw iii) catch iv) finally. **(10 Marks)**
b. Why is proper ordering of catch blocks necessary in C#? **(05 Marks)**
c. Write C# application to illustrate handling multiple exceptions. **(05 Marks)**

7 a. What are the main advantages of C# events? **(05 Marks)**
b. What are delegates? Explain the members of system. Multicast delegates : Give a small program to implement multicasting. **(10 Marks)**
c. What are the differences between private assembly and shared assemblies? **(05 Marks)**

8 Write short notes on :
a. Indexers
b. Mutable and immutable strings
c Enumeration in C#
d. Garbage collection in ▪ Net. **(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.

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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 E Quals, T_0 string 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, StrackTrace 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)**

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