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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 demonstrate 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 overridden 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)