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MANIPAL INSTITUTE OF TECHNOLOGY

(Constituent Institute of MANIPAL University)
MANIPAL-576104



SEVENTH SEMESTER B.E. (CS&E) DEGREE EXAMINATION-NOV 2009 Subject:C# Programming and .NET Concepts (CSE 407.5) (Revised Credit System)

TIME: 3 HOUR MAX.MARKS: 50

Instructions to the Candidates

- Answer ANY FIVE full Questions.
- Missing data can be suitably assumed
- 1. a) With a neat diagram, Explain the important building blocks of .NET platform? [4 M]
 - b)Differentiate between single and multifile assemblies? [3 M]
 - c)Explain the concept of JIT Compiler?[3 M]
- 2. a) What are names paces? List and explain the purpose of atleast five names pace? [3 M]
 - b) What is the role of cordbg utility? Explain the steps involved in debugging a source file? [4 M]
 - c)List and explain C# "preprocessor" directives?[3 M]
- 3. a)Give an anatomy of C# console application program and discuss the variations of main method?[4 M]
 - b)Differentiate between value types and reference types with an example?[3 M]
 - c) Explain boxing and unboxing with example code? [3 M]
- 4. a)Explain all the parameter passing mechanisms in C# with examples?[4 M]
 - b) What are the basic components of object oriented programming and how are they implemented in C#? Give the examples? [3 M]
 - c) What do you understand by exceptions in C#? Write a C# program to build a custom exception, which raises an exception when the argument passed, is not a palindrome number? [3 M]
- 5. a) What are interfaces? In what way are they better as compared to abstract classes? Illustrate with an example the use of interfaces as polymorphic agents? [4 M]
 - b) Write a complete C# program to multiply and divide two complex numbers by writing mul and div methods which could be called through the delegate method of programming?[3 M]
 - c) What do you understand by event based programming in C#? give an example? [3 M]
- 6. Write short notes of the following?
 - a)Advanced keywords of C# with example.
 - b)Garbage collection in .NET.
 - c)Cross Language Inheritance with example.
 - d)Operator Overloading with example.