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10CS/IS761

Seventh Semester B.E. Degree Examination, July/August 2021
C# Programming and .NET

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Explain features of .NET. (05 Marks)
b. Explain CTS class types, structures, interface, enumeration and delegate with example. (10 Marks)
c. Explain the features of C#. (05 Marks)
- 2 a. Explain any 5 commandline flags used in cordbg.exe. (05 Marks)
b. Write C# program which display OS version, .NET version and logical drives present on the machine. (05 Marks)
c. What are the output centric options of C# compiler and explain the role of CSC.exe. (10 Marks)
- 3 a. Explain C# parameter modifiers with example. (10 Marks)
b. Explain static method and static data with examples. (05 Marks)
c. What is Boxing operation? Explain boxing and unboxing with an example. (05 Marks)
- 4 a. What is method overloading? Give an example. (05 Marks)
b. Explain the pillars of Object Oriented Programming in C#. (05 Marks)
c. Explain abstract class and abstract method with an example. (05 Marks)
d. Explain casting rule with an example. (05 Marks)
- 5 a. What is an exception? Explain any four core members of System-Exception type. (05 Marks)
b. Write a C# program that throws a generic exception and catch an exception. (05 Marks)
c. Explain object generations. (05 Marks)
d. Explain any 5 members of System.GC type. (05 Marks)
- 6 a. Define interface. Explain explicit interface implementation. (05 Marks)
b. Explain Enumerable types and cloneable objects with example. (10 Marks)
c. Explain any 5 interfaces of System.Collections Namespace. (05 Marks)
- 7 a. What are delegates? Give an example for delegate. (05 Marks)
b. Write C# program to overload + operator to add two complex numbers. (10 Marks)
c. Define implicit and explicit conversion Routine with example. (05 Marks)
- 8 a. Explain the role and format of .NET assemblies. (10 Marks)
b. Explain single file and multifile assembly. (05 Marks)
c. Explain the role of delayed signing. (05 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.