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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.

