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10CS/IS761

Seventh Semester B.E. Degree Examination, Dec.2019/Jan.2020

**C# Programming and .Net**

Time: 3 hrs.

Max. Marks:100

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

**PART – A**

- 1 a. List core features provided by .NET Environment and with neat diagram. Explain the building blocks of .NET platform. (10 Marks)  
b. Explain the following in detail: i) Any three types of CTS ii) CLR. (10 Marks)
- 2 a. List out different output-Centric options of C# compiler and explain the importance of default response file and command Line debugger. (10 Marks)  
b. Explain the building .NET applications using Textpad. (10 Marks)
- 3 a. With snippet of C# code show how to override ToString ( ) and Equals( ) of System.Object class. (10 Marks)  
b. Explain params and ref method parameter modifiers with sample C# program. (10 Marks)
- 4 a. List and explain the pillars of OOP and with example show how to prevent inheritance in C# language. (10 Marks)  
b. Implement C# polymorphic support with an example. (10 Marks)

**PART – B**

- 5 a. Define errors, bugs and exceptions. List and explain the core members of System.Expectation Type. (10 Marks)  
b. Explain the members of System.GC type with illustration. (10 Marks)
- 6 a. Define interface. Explain any two methods to obtain interface references. (10 Marks)  
b. How to build IEnumerable and IEnumerator explain with implementation. (10 Marks)
- 7 a. Explain the simplest possible delegate in C# with example. (10 Marks)  
b. What are delegates? Explain the concept of multicast delegate with example. (10 Marks)
- 8 a. Explain the two conceptual views of .NET assembly, with neat diagram describe multifile assembly. (10 Marks)  
b. Write about notes on :  
i) Cross Language Inheritance  
ii) Shared assembly. (10 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.