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# complier 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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