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10CS/IS761

Seventh Semester B.E. Degree Examination, Feb./Mar. 2022

C# Programming and .NET

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART – A

- 1 a. Explain with example role of CIL. And also list out benefits of CIL. (07 Marks)
b. With figure, illustrate workflow that takes place between source code, .Net compiler and .Net execution engine. (07 Marks)
c. Discuss the various characteristics of CTS class. (06 Marks)
- 2 a. List and explain the basic output option available in C# compiler. (06 Marks)
b. What is role of CorDBG.exe? List and explain CorDBG.exe flags. (05 Marks)
c. List and explain any two C# preprocessor directives with examples. (09 Marks)
- 3 a. List and explain Core Members of System.Object. (06 Marks)
b. Explain with an example following C# parameter modifier i) out ii) ref. (08 Marks)
c. Explain various string Escape characters and Vibration string. (06 Marks)
- 4 a. Compare and contrast Classical and Adhoc polymorphism. (06 Marks)
b. What is Encapsulation? Explain with examples methods of enforcing encapsulation to manipulate private data members. (08 Marks)
c. Explain with example, how do you prevent inheritance using scales class. (06 Marks)

PART – B

- 5 a. Define i) Buys ii) Error iii) Exception. List and explain the role of core members of system. Exception base class. (09 Marks)
b. Explain use of “using” key word with respect to Garbage collection. (05 Marks)
c. Discuss role of Core members of System.GC types. (06 Marks)
- 6 a. What is Interface? Explain different techniques for invoking interface members at object level. (07 Marks)
b. Illustrate with example, role of i) IDictionary ii) ICollection. (06 Marks)
c. Explain the role of various members for System.Collections.Specialized Namespace. (07 Marks)
- 7 a. What is Delegate? Explain with example, members of System.MulticastDelegate. (08 Marks)
b. Explain the following C# Key words : i) Checked ii) Unchecked iii) Unsafe. (12 Marks)
- 8 a. With neat diagram, illustrate Single file and Multifile Assembly. (10 Marks)
b. Write short note on :
i) Cross Language Inheritance ii) Key elements of Assembly Manifest. (10 Marks)

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.