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10CS/IS761

Seventh Semester B.E. Degree Examination, June/July 2024

C# Programming and .NET

Max. Marks:100

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

PART – A

- 1 a. Discuss the building blocks of .Net with the neat diagram. (10 Marks)
b. Discuss the advantages of multi languages. Environment over single language environment. (05 Marks)
c. Explain the .Net execution life cycle with the neat diagram. (05 Marks)
- 2 a. With example, explain about output options of the C# compilers. (05 Marks)
b. Explain about cordbg.exe with an example. (05 Marks)
c. Write a C# program to display the following information using System.Environment class :
i) Current directory of application :
ii) OS version
iii) Logical drives
iv) Host name
v) .Net version. (05 Marks)
d. Explain the role of the following C# preprocessor directives with examples.
i) # region and # End region ii) # line. (05 Marks)
- 3 a. Is it necessary to make main() method as a static? Justify your answer with example. (02 Marks)
b. Give the method parameter modifier and explain each with an example. (08 Marks)
c. Explain in detail about array manipulation in C#. (10 Marks)
- 4 a. What are the three pillars of object oriented programming in C#? Differentiate between "is – a" and "has – a" relationships. (10 Marks)
b. Illustrate with an example, polymorphic support in C#. (10 Marks)

PART – B

- 5 a. List and explain with code, the core members of System.Exception type. (10 Marks)
b. Discuss the functions of 'new' keyword in C# and explain with an example. (05 Marks)
c. Explain the "System.GCtype" with an illustration. (05 Marks)
- 6 a. What is an interface? Explain two methods to obtain interface references. (10 Marks)
b. With an example, explain any four interfaces of System.Collections. (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.

- 7 a. What is delegates? Differentiate between synchronous and asynchronous delegates with example. (10 Marks)
- b. Discuss the following advanced keywords in C#. (10 Marks)
- i) Checked
 - ii) unsafe
 - iii) Stack ad-hoc
 - iv) size of
 - v) unchecked.
- 8 a. Differentiate between : (10 Marks)
- i) Single-file and Multi-file Assemblies
 - ii) Physical and logical view of an assembly.
- b. Write short notes on : (10 Marks)
- i) Cross language inheritance
 - ii) Shared assemblies.

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