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CSH 501

Third Semester M.Sc. Degree Examination, December 2018/January 2019
COMPUTER SCIENCE
.Net Technology

Time : 3 Hours

Max. Marks : 70

Note : Answer **any five** questions. **Each** question carries **equal** marks.

1. a) Briefly explain the history of .Net. Explain the building components of .net and their responsibilities. 7
b) What is namespaces ? Discuss the classes of System, Collections namespace. 7
2. a) Explain in detail the CTS and intrinsic CTS data types with suitable examples. 7
b) Explain the CLR. Illustrate the workflow that takes place between the source code, given .Net compiler and .Net execution engine. 7
3. a) Explain the role of Command Line Compiler and Command Line Debugger with example. 7
b) Write a C# console application program and explain the concept of type conversions. 7
4. a) How to define structures and custom namespaces in C# ? Explain with suitable examples. 7
b) What is enumeration ? How it is useful in C# programming ? Illustrate with examples. 7
5. a) How to define a class and object ? Briefly explain the object lifetime with suitable example. 7
b) Describe the tasks involved in handling exception. 7

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- 6. a) Discuss the benefits of object-oriented software design with suitable example. 7
 - b) What are the categories in which the functions of a class fall into ? Explain each category with suitable example. 7
 - 7. a) Discuss the syntax of an event and delegate declaration. 7
 - b) Describe various forms of implementing interfaces. Give examples of C# code for each case. 7
 - 8. a) Discuss the differences between overloading comparison operators and overloading arithmetic operators. 7
 - b) What is .Net assembly ? What does it contains ? Explain each of type. 7
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