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**97694**

**BCA 6th Semester**

**Examination – April, 2019**

**INTRODUCTION TO .NET**

Paper : BCA-309

Time : Three Hours ]

Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

**Note :** Attempt five questions in all. Question No. 1 is compulsory. In addition to compulsory question, attempt four more questions, selecting one question from each block. All questions carry equal marks.

1. Answer the following in brief :

- Why it is preferred to work with .Net environment while handling large projects ?
- Name different types of objects used in .Net environment.

(c) What do you understand by the manifest used in .Net ?

(d) Write a short note on the use of class libraries in .Net environment.

(e) Discuss the evolution of expressions in C# language.

(f) Briefly explain how local variables are different from the globally declared variables.

(g) Write down the syntax for defining a sub class in C# programming language.

(h) Discuss how the polymorphism can be achieved by using Virtual methods.

#### UNIT - I

2. (a) Discuss in detail the origins of the .Net technology with their respective characteristics.

(b) What is the role of MSIL in .Net technology ? How the use of MSIL enhances the system performance ?

3. (a) Discuss the role of Linker, Loader and JIT compiler in the activities performed by CLR in .NET environment.

(b) What is type safety feature ? How the given C# code can be checked against type safety feature ?

#### UNIT - II

4. (a) What do you mean by the default value of a variable ? State different default values of the following data objects in C# :

(i) Char Type

(ii) Boolean Type

(iii) Decimal Type

(iv) Class Type

(b) Illustrate the situation where Boxing and Unboxing are required. Explain with the help of examples.

5. (a) Discuss how the C# variables can be bounded to have fix value ? Explain with the help of its syntax and examples.

(b) Differentiate between Output and Static Variables with appropriate examples.

#### UNIT - III

6. (a) Discuss the rules followed to solve the given expression in mixed mode Arithmetic in C#.

- (b) Enumerate the scenario where Switch statement is preferred over the If else ladder.
7. (a) Write the characteristics of the following:  
Output parameter, Reference parameter & Value parameter with best suitable examples.
- (b) Explain the working of Overloaded and Static Constructors used in C# language.

#### UNIT - IV

8. (a) What do you mean by Final inheritance? How it is different from the simple inheritance?
- (b) Explain how the visibility of class members can be controlled from outside the class in C# language?
9. (a) Explain the types of errors that can be handled by using the exception handling in C#. Also enumerate the Exception Hierarchy followed in C#.
- (b) Why interfaces are required in C#? How an interface is defined, extended and implemented in C#.