

(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 Containment 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 type 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# ?

Roll No.

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 Unit. All questions carry equal marks.

1. Answer the following in brief :

(a) Why it is preferred to work with .Net environment while handling large projects ?

(b) 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.

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- (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#.

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