

7. (i) How use of Switch-Case statement enhances the program quality ? What if fall through in switch-case ? How it is achieved in C# ?
- (ii) Define the concepts of output parameters and variable argument lists with their respective syntax.

#### UNIT – IV

8. (i) How arrays are different from Array List in C# ? What are the base classes for both ? Discuss five-five methods for both array and array list.
- (ii) What do you understand by verbatim strings ? How these strings are created and implemented in C# ? What are the advantages of using verbatim strings in the program ?
9. (i) What are constructors ? State different rules that must be followed while creating constructors ? Explain the copy constructor with an example in C#.
- (ii) How exception handling is performed in C# ? How it is different from error handling ?

97694-2100-(P-4)(Q-9)(19) ( 4 )

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### BCA 6th Semester (Re-appear) Examination – November, 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 :** Question No. 1 is *compulsory*, consisting of 8 parts, carrying *two* marks each. From Question No 2 to Question No. 9, attempt any *four* questions, selecting *one* question from each Unit. Each question carry 16 marks.

1. (a) What are the major functions of Common Type Specification (CTS) in .NET ?
- (b) Briefly describe the purpose of JIT compiler.

97694-2100-(P-4)(Q-9)(19)

P. T. O.

- (c) Define assemblies. Write down the syntax for creating the assemblies.
- (d) What do you mean by NAN data type, introduced in .NET?
- (e) Describe the concept of precedence order of .NET operators.
- (f) Write down the syntax for creating the destructor in C#.
- (g) What do you understand by visibility control and why they are an important construct?
- (h) Write down the syntax for nested try block used in C#.

#### UNIT - I

2. (i) Why C# is called as type safe language? State any five most significant reasons for differentiating C# from JAVA and C++.
- (ii) What do you mean by Microsoft .NET strategy? Briefly explain the concept and relevance of OLE technology and three generations of component model.

97694-2100-(P-4)(Q-9)(19)

( 2 )

3. What technology is followed by .NET architecture? What are the objectives behind .NET evolution? Explain the .NET architecture with detailed explanation of its components. Why CLR is called as heart and soul of .NET framework. How .NET supports cross language interoperability?

#### UNIT - II

4. (i) Briefly describe the purpose and features of class libraries of .NET and metadata.  
(ii) Define literals. Explain different types of literals with appropriate examples along with their uses.
5. (i) Differentiate between value type and reference data types. Explain any two data types for each.  
(ii) When and how boxing and unboxing are used? How these concepts provide strength to C# environment?

#### UNIT - III

6. What are Bitwise operators? Why they have an important place in the C# programming structure? Explain different types of bitwise operators with examples. State and describe any five special C# operators along with their syntax and purpose.

97694-2100-(P-4)(Q-9)(19)

( 3 )

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