

## 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 ?

Roll No. ....

**97694**

## BCA 6th Semester Examination – April, 2018

**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  
Questions No. 9 attempt any *four* questions,  
selecting *one* question from each Unit. Each  
questions carry 16 marks.

1. (i) What are the major functions of Common Type  
Specification (CTS) in .NET ?
- (ii) Briefly describe the purpose of JIT compiler.
- (iii) Define assemblies. Write down the syntax for  
creating the assemblies.

- (iv) What do you mean by NAN data type, introduced in .NET ?
- (v) Describe the concept of precedence order of .NET operators.
- (vi) Write down the syntax for creating the destructor in C#.
- (vii) What do you understand by visibility control and why they are an important construct ?
- (viii) 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.
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 un-boxing are used ? How these concepts provide strength to C# environment ?

#### UNIT - III

6. (i) What are Bitwise operators ? Why they have an important place in the C# programming structure ? <http://www.HaryanaPapers.com>
- (ii) Explain different types of bitwise operators with examples. State and describe any five special C# operators along with their syntax and purpose.
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.