

- (ii) Compare the implementation of For loop and Foreach statement with appropriate examples.
- 7. (i) List different method modifiers along with their respective description, provided by the C#.
- (ii) What is the operator overloading ? Give a small snippet representing the Unary operator overloading.

Unit-IV

- 8. (i) Elaborate how overriding methods are different from Hiding methods used in inheritance.
- (ii) Discuss how class inheritance can be prevented in C# language with proper examples.
- 9. (i) Illustrate any *four* features provided by C# that can be used for automatic memory management.
- (ii) Elaborate the use of finally statement in the exception hierarchy in C# with appropriate examples.

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Roll No. :

Total No. of Questions : 9]

[Total No. of Pages : 4

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**B.C.A. 6th Semester (Reappear)
Examination, March-2021
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. Attempt *four* more questions selecting *one* question from each Unit. All questions carry equal marks.

- 1. (i) Briefly define the concept of namespaces used in .Net environment.
- (ii) List down different roles performed by the Common Language Specification in .Net Framework.

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- (iii) Why metadata is considered as an important component of .Net ?
- (iv) Write a short note on the use of class libraries in .Net
- (v) Define the operator's associativity used in C# language.
- (vi) What do you mean by the implicit type conversion used in C# language ?
- (vii) Differentiate between run time and compile time errors.
- (viii) List down any *four* similarities between a class and an interface.

Unit-I

- 2. (i) Explain in detail the different components of .Net architecture and their respective roles.
- (ii) What is the Web Service ? How is it achieved using the .Net Strategy ?
- 3. (i) How Common Language Runtime (CLR) provides the cross language interoperability to the programmers ?

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- (ii) What do you understand by the Framework Base Classes ? Name the namespace which contains the complete framework base class component. List any *five* uses of Framework Base class in .Net environment.

Unit-II

- 4. (i) Why do we use the 'using' directive and the 'alias' keyword ? Explain with the help of appropriate examples.
- (ii) Discuss the basic classification of different C# data types on the basis of their storage and in the assignment statements.
- 5. (i) Discuss how the C# variables can be bounded to have a fix value. Explain with the help of syntax and examples.
- (ii) Differentiate between output and static variables with appropriate examples.

Unit-III

- 6. (i) What is the Fall through in Switch statement ? How can it be helpful to the programmer ? Explain.

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