

(ii) What happens when an exception is caught in an inner try block of a nested try block ?

(iii) How exception-handling mechanisms can be used for debugging a program ?

9. Explain the following :

(a) Sealed classes and methods

(b) Interfaces in C#

8

8

Roll No.

97694

BCA 6th Semester

Examination – July, 2022

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, selecting *one* question from each Unit. Question No. 1 is *compulsory*. All questions carry equal marks.

1. Answer the following :

2 × 8 = 16

(a) What are abstract classes ?

(b) What is automatic memory management ?

(c) What are control constructs in C# ?

(d) What is function overriding ?

(e) Why C# is more object-oriented ?

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- (f) What is the scope of variables ?
- (g) What is metadata in .NET ?
- (h) What are constructors in C# ?

UNIT - I

- 2. (a) What are web forms ? What are their salient features ? What are the components of a web form ? Illustrate their working. 8
- (b) What is Visual-Studio .Net ? Enumerate its capabilities for C# application development. 8
- 3. Explain the following :
 - (a) .NET Framework 8
 - (b) Namespaces in .NET 8

UNIT - II

- 4. (a) What is C# ? How is different from Java ? Explain. 8
- (b) What are Class Libraries in C# ? Illustrate. 8
- 5. Explain the following :
 - (a) Data types in C# 8
 - (b) Boxing and Unboxing 8

97694-3500-(P-4)/(Q-9)(22) (2)

UNIT - III

- 6. (a) What is a method in C# ? How a method is invoked in C# ? What is the significance of writing Main method in different ways ? Also give two examples where method overloading is applied. 8
- (b) What are various data access methods ? Which data access method is used in .NET and why ? Illustrate its benefits over other methods. 8
- 7. Explain the following :
 - (a) Operator precedence & associativity 8
 - (b) for and for each loops 8

UNIT - IV

- 8. (a) What is exception handling in C# ? What are the major tasks involved in handling exceptions ? What are the exceptions that occur commonly in C# programs ? 7
- (b) Answer the following :
 - (i) Why is proper ordering of catch blocks necessary in C# ? 9

97694-3500-(P-4)/(Q-9)(22) (3)

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