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II/IV B.Tech (Supplementary) DEGREE EXAMINATION**November, 2019****Third Semester****Time: Three Hours****Common to CSE and IT
Object Oriented Programming****Maximum : 60 Marks***Answer Question No.1 compulsorily.**(1X12 = 12 Marks)**Answer ONE question from each unit.**(4X12=48 Marks)*

1 Answer all questions

(1X12=12 Marks)

- Why Data Types are Important?
- Define Literals? Explain with an Example.
- Define Encapsulation.
- Define Indexer.
- What is Enumeration?
- Define Abstract Method.
- Mention the difference ways to generate an Exception.
- What is Contra variance?
- What is a Sealed Class in C#?
- Define a Name Space.
- List various predefined non- generic Collections.
- What is inheritance?

UNIT I

- Explain Bit Wise Operators with Examples. 6M
 - Explain the Method Parameters Keywords in C# namely “ref” and “out” with suitable Examples. 6M

(OR)

- Define an Array? Demonstrate a Two Dimensional Array 6M
 - Explain method overloading with example. 6M

UNIT II

- Define Operator Overloading? Write a Program that overloads Binary Operators. 6M
 - Explain Multi level, Hierarchical Inheritances with an Example. 6M

(OR)

- Write a Program that implements multiple inheritance. 6M
 - Define Boxing and Unboxing with Suitable Examples 6M

UNIT III

- Illustrate How Multiple Exceptions are handled in C# programming with suitable Examples. 6M
 - Demonstrate BinaryReader and BinaryWriter with an Example Program. 6M

(OR)

- What is a Delegate? Illustrate how to define a Delegate Type in C#. 6M
 - Explain how to pass arguments to an Anonymous Method. 6M

UNIT IV

- Write a C# Program that uses a generic Class with two type Parameters. 6M
 - What is Stack Class? Demonstrate with Suitable Example. 6M

(OR)

- Write a C# Program to demonstrate non-generic collection class ArrayList 6M
 - Discuss about Enumerators in C# with Example Programs. 6M



SHORT SCHEME

PART-A

Answer Question No.1 compulsorily.

(1X12 = 12 Marks)

- 1)
- a) Definition of Data Types and its importance [1M]
 - b) Definition of Literals with an Example. [1M]
 - c) Definition of Encapsulation [1M]
 - d) Definition of Indexer [1M]
 - e) Definition of Enumeration with Syntax [1M]
 - f) Definition of Abstract Method with Syntax [1M]
 - g) Explain difference ways to generate an Exception [1M]
 - h) Definition of Contra Variance [1M]
 - i) Definition of Sealed Class [1M]
 - j) Definition of a Name Space? [1M]
 - k) List out predefined non- generic Collections. [1M]
 - l) Explain the two differences between IComparer and IEqualityComparer. [1M]

Answer ONE question from each unit.

(4X12=48 Marks)

UNIT-I

- 2 a) Definition of Bitwise Operators and their syntax [2M]
Example Program [4M]
- b) Explain the Method Parameters Keywords in C# namely “ref” and “out” [3M]
Example Programs [3M]

(OR)

- 3 a) Definition of Array and Explain Two Dimensional Array with syntax [3M]
Example Program [3M]
- b) Explain any 3 differences Optimal Arguments and overloading [2*3=6M]

UNIT-II

- 4 a) Definition of Operator Overloading? [2M]
Program for overloads Binary Operators [4M]
- b) Explain multi level and Hierarchical Inheritances [3M]
Example Programs [3M]

(OR)

- 5 a) Definition of One Dimensional Indexer [2M]
Program that creates a One Dimensional Indexer. [4M]
- b) Definition of Boxing and Unboxing with syntaxes [3M]
Example Programs [3M]

UNIT-III

- 6 a)** Multiple Exception Explanation [2M]
Example Program [4M]
- b)** Definition of BinaryReader and BinaryWriter with syntaxes [3M]
Example Programs [3M]

(OR)

- 7 a)** Definition of Delegate? [2M]
How to define a Delegate Type in C#. [4M]
- b)** Explain how to pass arguments to an Anonymous Method. [6M]

UNIT-IV

- 8 a)** uses a generic Class with two type Parameters. [2M]
Program [4M]
- b)** Definition of Stack Class [2M]
Example Program [4M]

(OR)

- 9 a)** Use of non-generic collection class ArrayList [2M]
Example Program [4M]
- b)** Definition of Enumerators in C# [2M]
Example Program [4M]