53 (CS 814) CNFM

2021

C# AND NET FRAMEWORK

Paper : CS 814

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer **any five** questions.

1. (A) Fill in the blanks with an appropriate word : 1×5=5

    (i) The ———— operator is used to concatenate two or more string objects.

    (ii) The ———— method is used to remove white space from a string.

    (iii) Immutable string objects can be created by using ———— class.

    (iv) The data members of a class by default are ————.

(v) The method in which variable number of arguments are handled is known as ———.

(B) Briefly define the following terms : 3×5=15

(i) Alias

(ii) Fixed length variable

(iii) Reference parameter

(iv) String Builder ( )

(v) Private modifier.

2. *(A)* Why is C# called type-safe language ? 6

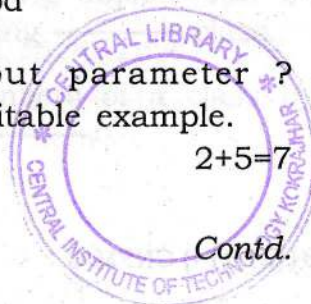*(B)* Define .NET Framework. C# is a modern language, why ? 3+4=7

(C) Common Language Runtime (CLR) is the soul of C#, why ? 7

3. *(A)* What is a method ? Define method overloading. Write a suitable program for method overloading. 2+2+6=10

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(B) How is .COM different from .NET Technology ? Explain in details. 6

(C) Differentiate between Array and Array list ( ) pointwise. 4

4. (A) Write a program that will read a string and rewrite it in alphabetical order. 6

(B) Write a method that would take an array as input and check whether a given element is present in the array. If the element is present, the method will return true otherwise return false. 10

(C) Briefly explain about multi-level inheritance. 4

5. (A) Write a program to test whether two strings are equal or not using 5+5=10

(i) = = Operator

(ii) Equal ( ) method

(B) What is an output parameter ? Illustrate with a suitable example. 2+5=7

(C) What is your idea about protected modifier ?   3

6. Write short notes on : *(any four)* 5×4=20

(A) Runtime polymorphism

(B) Namespace

(C) Method Overriding

(D) Virtual method.

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