

Total number of printed pages—4

53 (IT 823) CNFM

2021

C# AND .NET FRAMEWORK

Paper : IT 823

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 words : 1×5=5
 - (i) The base class for string () method is _____ .
 - (ii) The modifiers used to define an array of parameters or list of arguments is called _____ .
 - (iii) The class used to create a mutable string is _____ class.

Contd.

(iv) In C#, a string is known as an _____.

(v) The operator used with if conditional statement is known as _____ operator.

(B) Define the following terms in brief :
3×5=15

- (i) Namespace
- (ii) Variable length variable
- (iii) Output parameter
- (iv) ArrayList ()
- (v) foreach () loop.

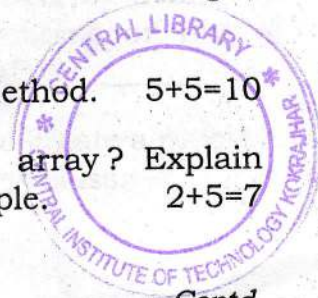
2. (A) Define .NET. Mention *four* benefits of .NET approach. 2+4=6

(B) What is an alias? When do you use an alias? Illustrate with a suitable program. 2+2+6=10

(C) Distinguish between String () and StringBuilder () pointwise. 2×2=4

3. (A) How .COM is different from .OLE Technology? Explain in details. 6

- (B) What is static method? Write a program showing its implementation. $2+6=8$
- (C) Write a program to enter a sentence and count the number of characters present in it. 6
4. (A) Write a program to replace all blank spaces of a multi-word line of text with '*'. 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, then the method will return true otherwise, false. 10
- (C) Briefly explain about hierarchical inheritance. 4
5. (A) Write a program to concatenate the two strings "Corona" and "Vaccine" using —
(i) + operator
(ii) Concatenate () Method. $5+5=10$
- (B) What is a parameter array? Explain with a suitable example. $2+5=7$



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

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

(A) Compile time polymorphism

(B) Virtual method

(C) Encapsulation

(D) Inheritance

(E) .NET Framework.

