Day : Friday
Date : 28.01.2022   W-18789-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 60

N.B.

1) Q.4 from Section – I is **COMPULSORY.**
2) Answer any **TWO** questions from Q.1, Q.2, Q.3 in Section – I.
3) Answer any **TWO** questions from Q.5, Q.6, Q.7 in Section – II.
4) All questions carry **EQUAL** marks.
5) Answers to both the sections should be written in the **SAME** answer books.
6) Draw neat and labelled diagrams **WHEREVER** necessary.

SECTION – I

Q.1   Answer the following (**6 x 2 = 12 Marks)**
a) Explain the DOT NET framework in detail.
b) Explain the characteristics of C#.

Q.2   Answer the following (**6 x 2 = 12 Marks)**
a) What is an object in c#? Explain with example.
b) Discuss the features of visual studio IDE.

Q.3   Explain the following (**6 x 2 = 12 Marks)**
a) What is an ADO.NET? What are important objects of ADO.NET?
b) Explain the hierarchy of exception in C#?

Q.4   Write short notes on **ANY THREE** of the following (**4 x 3 = 12 Marks)**
a) .NET class library
b) Control statements in C#
c) Constructors
d) ADO.NET database connection
e) Checked and unchecked Operators

SECTION – II

Q.5   Answer the following (**6 x 2 = 12 Marks)**
a) Write a c# program to count the occurrence of each character in a string?
b) Write a c# program to find if a number is a perfect number or not?

Q.6   Answer the following (**6 x 2 = 12 Marks)**
a) Write a c# program to print Fibonacci series.
b) Write a c# program to demonstrate exception handling.

Q.7   Explain the following (**6 x 2 = 12 Marks)**
a) Write a c# program to find the sum of 1 to 50 numbers. Also display the all even and odd number in the given range.
b) Write a c# program to demonstrate use of copy constructors.

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