

B.C.A. SEM-V (2014 COURSE) CBCS : SUMMER - 2018
SUBJECT: C# PROGRAMMING

Day : **Wednesday**
Date : **02/05/2018**

Time : **02.00 PM TO 05.00 PM**
Max. Marks : 100.

S-2018-1712

N.B.:

- 1) Attempt any **FOUR** questions from Section-I and any **TWO** questions from Section-II.
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.

SECTION-I

- Q.1** Explain in detail the features of C# programming. (15)
- Q.2** Explain in detail the following C# methods : (15)
(a) Read () (b) ReadLine () (c) WriteLine ()
- Q.3** How to declare interfaces? Explain in detail the implementation of interfaces with suitable example. (15)
- Q.4** Explain in detail the various C# mechanisms to handle programming errors. (15)
- Q.5** Describe 'Constructor' and their types in brief. (15)
- Q.6** Explain in detail the following access modifiers with example: (15)
a) Public
b) Private
c) Protected
- Q.7** Write short notes on any **THREE** of the following: (15)
a) LINQ
b) Multicast delegates
c) 'Var' variable
d) 'static' Keyword.

SECTION-II

- Q.8** Write a C# program to demonstrate difference between sealed class and abstract class. (20)
- Q.9** Write C# program to transpose given matrix elements. Make necessary assumption for order of matrix. (20)
(Transpose operation: interchanging row values and column values.)
- Q.10** Write a C# program with use of methods to do the following: (20)
a) Accept a number from the user.
b) Count number of 1's in the input.
c) Find out the sum of odd position digits and even position digits separately.
d) Reverse of the number.
Hint: (8140216 ∴ No. of 1's is 2; 8 + 4 + 2 + 6 = 20 and 1 + 0 + 1 = 2; Reverse of input 8140216 is 6120418)

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