

B.C.A. SEM-V (2014 Course) CBCS : SUMMER - 2019

SUBJECT : C# PROGRAMMING

Day : Monday
Date : 22/04/2019

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

S-2019-2077

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 **SAME** answer book.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** “C # is very powerful language in terms of security and other features”. [15]
Justify.
- Q.2** Discuss the importance of following keywords: [15]
a) ‘var’ b) ‘this’ c) ‘ref’
- Q.3** Explain in detail looping structures mentioned below with suitable example: [15]
a) do.....while ()
b) while ()
c) for ()
- Q.4** Illustrate concept of interface with suitable example. [15]
- Q.5** Differentiate the following: [15]
a) Value Type and Reference Type
b) Abstract Class and Sealed Class
c) Method Overloading and Method Overriding
- Q.6** How generic classes do helps in coding? Illustrate with suitable example. [15]
- Q.7** Write short notes on **ANY THREE** of the following: [15]
a) Delegates
b) Abstract class
c) Constructor and their types
d) Indexers

SECTION – II

- Q.8** a) Write C# program to generate divide by zero exception and handle with try and catch block. [10]
b) Write C# program to demonstrate jagged array (make necessary assumption). [10]
- Q.9** Write a C# program for ‘BCABank’ wherein ‘BCABankTran’ is a class, [20]
contains methods withdrawal(), deposit(), balance_enquiry() to operate account types such as saving and current with the help of method overloading.
- Q.10** a) Write C# program to demonstrate the implementation of Inheritance using [10]
virtual function.
b) Write C# program to find prime numbers between 10.....100. [10]
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