C   Reg. No. :

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (5x 1 = 5 Marks)

1. Which of the following components of the .NET framework provide an extensible set of classes that can be used by any .NET compliant programming language?   CO1 -R

   (a) .NET class libraries   (b) Common Language Runtime

   (c) Common Language Infrastructure   (d) Component Object Model

2. Which of the following .NET components can be used to remove unused references from the managed heap?   CO1 -R

   (a) Common Language Infrastructure   (b) CLR

   (c) Garbage Collector   (d) Class Loader

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4. Which of the following is the necessary condition for implementing delegates?   CO2 -R

   (a) Class declaration   (b) Inheritance

   (c) Run-time Polymorphism   (d) Exceptions

5. What is the connection string's key / value pair for using Windows   CO5 -R
   Authentication in SQL Server 2000 and SQL Server 2005?

   (a) 1, 2   (b) 1, 2, 3   (c) 2, 3   (d) 1, 4

<div align="center">PART – B (5 x 3= 15Marks)</div>

6. What are some of the features of generics in C#?   CO1- U

7. What is the difference between a struct and a class in C#?.   CO1 -U

8. Describe about the sealed class.   CO1 -U

9. Define subscriber deign pattern with an example.   CO2 -R

10. Justify that a stored procedure is better suitable for the repetitive task than a   CO5 -App
    function

<div align="center">PART – C (5 x 16= 80Marks)</div>

11. (a) What is Common Type System? Explain different types defined   CO1- App   (16)
        by the CTS in their language of choice
<div align="center">Or</div>
    (b) Write a program in C# Sharp to count a total number of duplicate   CO1- App   (16)
        elements in an array

12. (a) Demonstrate both sealed classes and sealed methods with   CO2 -U   (16)
        example program
<div align="center">Or</div>
    (b) Discuss about constructors and its types with example programs.   CO2 -U   (16)

13. (a) Develop a c# application which demonstrates dynamic   CO3 -App   (16)
        polymorphism
<div align="center">Or</div>
    (b) Consider a student class with feet and inches as attributes which   CO3- App   (16)
        describes the height of the student. Write a C# program to
        overload the + operator and to find the average of N students.

14. (a) Describe in detail about windows application Configuration.   CO4 -App   (16)
<div align="center">Or</div>
    (b) Write a Program to create web based application for adding   CO4 -App   (16)
        controls and events in asp.net.

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15. (a) Explain the web service architecture. What are the step involved   CO5 -App   (16)
in the create   and consumption of web services

<div align="center">Or</div>

(b) Create an application How is the book ASP.NET with c# by   CO5 -App   (16)
Vipul Prakashan?" Give the user three choices.
 (i) Good
 (ii) Satisfactory
(iii) Bad. Provide a VOTE button. After user votes, present the
result in percentage using labels next to the choices.

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