

15U419

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Name: .....

Reg. No.....

**FOURTH SEMESTER B.C.A. DEGREE EXAMINATION, MAY 2017**

(CUCBCSS-UG)

**CC15U BCA4 B05 - VISUAL PROGRAMMING USING C#.NET**

(Core Course)

(2015 Admission)

Time: Three Hours

Maximum: 80 Marks

**PART I**

**Answer All Questions .Each Question Carries 1 Mark.**

1. What is CLR?
2. CTS stand for \_\_\_\_\_
3. What is metadata?
4. \_\_\_\_\_ property of a ToolTip control gets or sets the time that passes before the ToolTip appears.  
(a) InitialDelay (b) AutoPopDelay (c) AutomaticDelay (d) ReshowDelay
5. The \_\_\_\_\_ method of the DataAdapter is used to populate a DataSet.
6. \_\_\_\_\_ event occurs when the mouse pointer is over the control and a mouse button is pressed.
7. By using a \_\_\_\_\_ block, you can clean up any resources that are allocated in a try block.
8. \_\_\_\_\_ methods enable you to extend types without using inheritance.
9. \_\_\_\_\_ is a collection of types and resources that forms a logical unit of functionality.
10. \_\_\_\_\_ keyword is used to refer to the current instance of a class.

(10 x 1 =10 marks).

**PART II**

**Answer All Five Questions. Each Question Carries 2 Marks.**

11. What is a sealed class?
12. Differentiate Value Types and Reference Types.
13. What is a constructor?
14. What is ADO.NET?
15. What is checked and unchecked statements in C#?

(5 x 2 = 10 marks)

**PART III**

**Answer Any Five Questions. Each Question Carries 4 Marks.**

16. Write a C# program to demonstrate the use of exception handling statements.
17. Explain the term delegate, with an example.
18. Explain DataSet and DataReader components in ADO.NET.
19. Write a short note on Indexers.
20. Explain the term LINQ with a suitable example.
21. Explain anonymous types with an example.
22. Explain compile time and run time polymorphism.
23. Explain method overloading and overriding with an example.

**(5 x 4 = 20 marks)**

**PART IV**

**Answer Any Five Questions. Each Question Carries 8 Marks.**

24. Describe the architecture and components of .NET Framework.
25. What is encapsulation? Explain the two methods of implementing encapsulation in C# with suitable examples.
26. Explain the different loop statements used in C#, with examples.
27. Explain the following terms:  
(i) Partial class      (ii) Static class      (iii) Abstract class      (iv) Interface
28. Explain the architecture of ADO.NET.
29. Write a C# program to create a simple calculator.
30. Explain any four properties of Button and TextBox controls each, in C#.
31. Explain any two mouse events and two keyboard events with example.

**(5 x 8 = 40 marks)**

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