

**FOURTH SEMESTER B.C.A. DEGREE EXAMINATION, APRIL 2018****(CUCBCSS-UG)****BCA 4B 05—VISUAL PROGRAMMING USING C++.NET****Time : Three Hours****Maximum : 80 Marks****Part A***Answer all questions.**Each question carries 1 mark.*

1. \_\_\_\_\_ protocol is used by web services to maintain interoperability between different technologies.
2. \_\_\_\_\_ is the full form of WCF.
3. Interface is an example for \_\_\_\_\_ data type.
4. \_\_\_\_\_ is the process of converting a value type to the type object.
5. \_\_\_\_\_ is the property by which a child class obtains all the features defined in the parent class.
6. \_\_\_\_\_ is the process of creating more than one method with the same name but different input parameters.
7. \_\_\_\_\_ is a reference type variable that holds the reference to a method.
8. \_\_\_\_\_ property of Label control is used to set the text displayed on it.
9. What method needs to be called on the DataAdapter control to fill the generated DataSet with data?
10. \_\_\_\_\_ ADO.NET objects specify a relationship between parent and child tables based on a key that both tables share.

**(10 × 1 = 10 marks)****Part B***Answer all questions.**Each question carries 2 marks.*

11. What is metadata?
12. What is pointer type data?
13. What is encapsulation?
14. Write the importance of finally statement in exception handling.
15. What is the difference between OLEDB Provider and SqlConnection?

**(5 × 2 = 10 marks)****Turn over**

**Part C**

*Answer any five questions.*

*Each question carries 4 marks.*

16. Write short note on CLR.
17. Write short note on Windows Card Space and LINQ.
18. Write short note on using keyword.
19. Write a Program in C# to find the second largest element in a single dimensional array.
20. What is sealed methods? Explain with an example.
21. Write short note on any four properties of Label control.
22. How can you add or remove rows from the DataTable object of Data Set?
23. What are the namespaces used in ADO.NET for data access?

(5 × 4 = 20 marks)

**Part D**

*Answer any five questions.*

*Each question carries 8 marks.*

24. Explain the components of .NET framework.
25. Explain operators supported by C#.
26. Explain different types of loops used in C#.
27. What is polymorphism? Explain the different types of polymorphism.
28. Explain Button control in C#.
29. Explain different Windows Forms Layout.
30. Explain the importance of DataReader object.
31. Explain the architecture of ADO.NET.

(5 × 8 = 40 marks)