

K24U 2878

Reg. No. : .....

Name : .....

V Semester B.C.A. Degree (CBCSS – OBE – Regular/Supplementary/  
Improvement) Examination, November 2024  
(2019 to 2022 Admissions)

Core Course

5B16BCA-E03 : C# AND.NET PROGRAMMING

Time : 3 Hours

Max. Marks : 40

SECTION – A  
(Short Answer)

Answer **all** the questions.

(6×1=6)

1. What is a class ?
2. What is the significance of the 'public' keyword in object-oriented programming ?
3. The \_\_\_\_\_ class is the class that inherits from another class.
4. What does ADO.NET stands for in C# ?
5. Name one method used to execute a query in ADO.NET.
6. What is the purpose of the DataSet class in ADO.NET ?

SECTION – B  
(Short Essay)

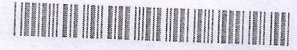
Answer **any six** questions.

(6×2=12)

7. C# is a strongly typed language. Why ?
8. What is the benefit of having a large standard library in the C# language ?
9. What is referred to as an object in C# ?
10. What are unary operators in C# ?

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11. How are the instance variables initialized ?
12. What is the significance of access modifiers in object-oriented programming ?
13. Compare the listbox control and dropdown control of a webform.
14. What is the significance of a web service ?

SECTION – C  
(Essay)

Answer **any four** questions.

(4×3=12)

15. Explain the .NET framework and its main components.
16. What is environment class ? How are the command-line arguments accessed using the environment class ?
17. Explain an exit-controlled loop in C#.
18. Differentiate between Ref and out keywords in C#.
19. Describe the keyword 'virtual' with the help of the example code.
20. What is meant by 'Type discovery' ?

SECTION – D  
(Long Essay)

Answer **any two** questions.

(2×5=10)

21. Write any five applications of the C# language.
  22. Explain value data types in C#.
  23. Differentiate between the delegate and the event in C#.
  24. How does a web service work ?
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