

B.C.A Semester - 4 (CBCS) Examination
March/April-2026 [NEW COURSE]
Programming with C Sharp (Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Que. 1 (A) Answer the following questions. (03)
- 1) What is the full form of IDE?
 - 2) What is the purpose of Assemblies in .NET?
 - 3) What is Boxing in C#?
- Que. 1 (B) Answer the following questions. (Any Two) (06)
- 1) Explain the difference between Value Type and Reference Type.
 - 2) Explain Conditional Statements with examples.
 - 3) Explain different types of Loops in C#.
 - 4) What is the role of JIT Compiler in .NET?
- Que. 1 (C) Answer the following question. (Any One) (05)
- 1) Explain different types of arrays with suitable examples.
 - 2) Explain .NET Framework architecture with a neat diagram.
- Que. 2 (A) Answer the following questions. (03)
- 1) Can a class inherit multiple classes in C#? (Yes/No)
 - 2) What is the purpose of an Abstract Class?
 - 3) Which keyword is used to define a constant variable in C#?
- Que. 2 (B) Answer the following questions. (Any Two) (06)
- 1) What is a Constructor? Explain its types.
 - 2) What are Operators in C#? List different types.
 - 3) What is an Interface? How is it different from Abstract Class?
 - 4) Explain the concept of Method Overloading and Operator Overloading.
- Que. 2 (C) Answer the following question. (Any One) (05)
- 1) Explain Stack and Queue with examples.
 - 2) What is a Delegate? Explain Single and Multicast Delegates.
- Que. 3 (A) Answer the following questions. (03)
- 1) What is the use of a Tree View control?
 - 2) What is the purpose of a Scroll Bar control?
 - 3) What is a Message Box used for?
- Que. 3 (B) Answer the following questions. (Any Two) (06)
- 1) Explain Text Box control with properties and example.
 - 2) Explain Picture Box control with properties.
 - 3) Explain Timer control with properties and example.
 - 4) Explain List Box control with properties.

- Que. 3 (C) Answer the following question. (Any One) (05)
- 1) Explain Message Box with Dialog Result class using a suitable example.
 - 2) Explain Font Dialog, Color Dialog, and Open File Dialog controls with properties and examples.
- Que. 4 (A) Answer the following questions. (03)
- 1) What is the full form of SQL?
 - 2) Which class is used to store data in a disconnected architecture?
 - 3) What is the use of a Data Relation in ADO.NET?
- Que. 4 (B) Answer the following questions. (Any Two) (06)
- 1) Explain the Connection Class in ADO.NET.
 - 2) Explain the Command Class with examples.
 - 3) What is a Data Adapter? How does it work?
 - 4) What is the difference between Connected and Disconnected Architecture?
- Que. 4 (C) Answer the following question. (Any One) (05)
- 1) Explain Data Grid View control with a suitable example using a SELECT query.
 - 2) Explain the role of Data Table, Data Row, and Data Column in ADO.NET.
- Que. 5 (A) Answer the following questions. (03)
- 1) What is the extension of a C# source code file?
 - 2) What is the purpose of the File System Editor in a setup project?
 - 3) What is a Crystal Report used for?
- Que. 5 (B) Answer the following questions. (Any Two) (06)
- 1) List and explain the Report Section Formula in C#.
 - 2) List and explain Reporting Section Special Fields in C#.
 - 3) Write the steps to create a setup file in C#.
 - 4) What is the purpose of Crystal Reports, and how are they useful?
- Que. 5 (C) Answer the following question. (Any One) (05)
- 1) Write the steps to create a User Control in C# with events and property examples.
 - 2) List and explain different Report Sections in Crystal Reports.
