

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (ECE) (Sem.-6)
C# AND .NET PROGRAMMING

Subject Code : BTEC-906D-18

M.Code : 79380

Date of Examination : 20-05-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION - A

1. Write briefly :

- a) What is an event listener in C#?
- b) Explain the purpose of generics in C#.
- c) Describe the difference between managed and unmanaged memory.
- d) What is an abstract class?
- e) Explain the purpose of localization in .NET.
- f) Define ADO.NET and its key functions.
- g) What is SAX and how does it differ from DOM?
- h) What is an assembly in .NET?
- i) Explain the concept of app domains in .NET.
- j) Define bubbling and tunneling events.

SECTION - B

2. Discuss the role of delegates and events in C# with examples.
3. Explain the use of lambda expressions with multiple scenarios in C# programming.
4. Explain the concept of indexers in C# and provide an example of index overloading.
5. Describe threading in C# focusing on its advantages in concurrent applications.
6. Describe the process of using ADO.NET for data access in a C# application.

SECTION - C

7. Explain the methods used for handling errors and exceptions in C#, including custom exceptions and exception chaining.
8. Provide an in-depth comparison of polymorphism, inheritance and interfaces in C#, including code examples to highlight their differences and usage.
9. Provide a detailed overview of networking for mobile devices using the .NET Compact Framework, including XAML for mobile UIs and compact data storage solutions:

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.