

1. What is the .NET Framework?

- A) An operating system
- B) A programming language
- C) A software development framework
- D) A database management system
- **Answer: C**

2. Which language is NOT supported by the .NET Framework?

- A) C#
- B) VB.NET
- C) Java
- D) F#
- **Answer: C**

3. What is the CLR in .NET Framework?

- A) Common Language Runtime
- B) Central Language Repository
- C) Common Link Runtime
- D) Common Language Repository
- **Answer: A**

4. What is the main function of the CLR?

- A) Code compilation
- B) Memory management
- C) Debugging
- D) All of the above
- **Answer: D**

5. What does the .NET Framework Class Library (FCL) provide?

- A) A collection of reusable classes
- B) A set of GUI components

- C) A collection of database schemas
- D) A set of network protocols
- **Answer: A**

6. What is the primary purpose of ASP.NET?

- A) Creating desktop applications
- B) Developing web applications
- C) Managing databases
- D) Writing device drivers
- **Answer: B**

7. What is the full form of ADO.NET?

- A) Active Data Object
- B) Advanced Data Object
- C) ActiveX Data Object
- D) Advanced Development Object
- **Answer: C**

8. Which namespace is used for handling data in .NET Framework?

- A) System.Data
- B) System.IO
- C) System.Net
- D) System.Web
- **Answer: A**

9. What is the use of the 'using' keyword in C#?

- A) To declare namespaces
- B) To include system libraries
- C) To ensure that resources are disposed of correctly
- D) To handle exceptions
- **Answer: C**

10. **Which tool is used for managing the Global Assembly Cache (GAC)?**
- A) gacutil.exe
 - B) regasm.exe
 - C) sn.exe
 - D) ildasm.exe
 - **Answer: A**
11. **What does IL stand for in the context of .NET?**
- A) Intermediate Language
 - B) Interlinked Language
 - C) Inherited Language
 - D) Integrated Language
 - **Answer: A**
12. **What is the extension of a compiled .NET assembly?**
- A) .exe
 - B) .dll
 - C) .msi
 - D) Both A and B
 - **Answer: D**
13. **What is managed code?**
- A) Code written in Java
 - B) Code executed by the CLR
 - C) Code written in HTML
 - D) Code managed by the operating system
 - **Answer: B**
14. **Which component in .NET Framework is responsible for garbage collection?**
- A) CLR
 - B) BCL

- C) FCL
 - D) GAC
 - **Answer: A**
15. **What is the purpose of the JIT compiler in .NET?**
- A) To interpret bytecode
 - B) To compile IL to native code at runtime
 - C) To manage memory allocation
 - D) To handle exceptions
 - **Answer: B**
16. **Which of the following is a data access technology in .NET?**
- A) LINQ
 - B) Entity Framework
 - C) ADO.NET
 - D) All of the above
 - **Answer: D**
17. **What does the term 'boxing' refer to in .NET?**
- A) Converting a value type to a reference type
 - B) Converting a reference type to a value type
 - C) Handling exceptions
 - D) Using interfaces
 - **Answer: A**
18. **What is the role of the Global Assembly Cache (GAC)?**
- A) Storing .NET assemblies for shared use
 - B) Compiling source code
 - C) Managing database connections
 - D) Handling security policies
 - **Answer: A**

19. **What is the difference between managed and unmanaged code in .NET?**

- A) Managed code is executed by the CLR, unmanaged code is not
- B) Unmanaged code is executed by the CLR, managed code is not
- C) Managed code is written in Java, unmanaged code in C#
- D) Unmanaged code is written in Java, managed code in C#
- **Answer: A**

20. **Which attribute is used to mark a method as obsolete in .NET?**

- A) [Old]
- B) [Obsolete]
- C) [Deprecated]
- D) [Removed]
- **Answer: B**

21. **Which assembly stores .NET Framework's base class library?**

- A) mscorlib.dll
- B) System.dll
- C) System.Core.dll
- D) System.Windows.dll
- **Answer: A**

22. **What is the purpose of the 'finally' block in exception handling?**

- A) To handle exceptions
- B) To execute code regardless of whether an exception is thrown
- C) To declare local variables
- D) To catch exceptions
- **Answer: B**

23. **Which namespace is used for threading in .NET?**

- A) System.Threading
- B) System.Timers

- C) System.Threading.Tasks
 - D) System.Tasks
 - **Answer: A**
24. **What does the 'static' keyword signify in C#?**
- A) The method or variable belongs to the class, not instances of the class
 - B) The method or variable can be accessed outside the class
 - C) The method or variable cannot be overridden
 - D) The method or variable is constant
 - **Answer: A**
25. **Which class is used for file I/O operations in .NET?**
- A) System.IO.File
 - B) System.IO.Stream
 - C) System.IO.Path
 - D) System.IO.Directory
 - **Answer: A**
26. **What is the full form of WPF?**
- A) Windows Presentation Framework
 - B) Windows Process Framework
 - C) Web Presentation Framework
 - D) Web Process Framework
 - **Answer: A**
27. **Which method is used to start a thread in .NET?**
- A) Begin()
 - B) Start()
 - C) Run()
 - D) Execute()
 - **Answer: B**

28. **What is the purpose of the 'lock' statement in C#?**
- A) To prevent multiple threads from accessing a resource simultaneously
 - B) To lock a file
 - C) To encrypt data
 - D) To secure network connections
 - **Answer: A**
29. **Which technology is used for building service-oriented applications in .NET?**
- A) WCF (Windows Communication Foundation)
 - B) WPF (Windows Presentation Foundation)
 - C) ADO.NET
 - D) LINQ
 - **Answer: A**
30. **Which .NET feature allows querying of data from different sources?**
- A) LINQ (Language Integrated Query)
 - B) ADO.NET
 - C) Entity Framework
 - D) ASP.NET
 - **Answer: A**
31. **What is the purpose of reflection in .NET?**
- A) To inspect metadata of assemblies
 - B) To execute SQL queries
 - C) To handle exceptions
 - D) To manage memory
 - **Answer: A**
32. **What does the 'sealed' keyword signify in C#?**
- A) The class cannot be inherited
 - B) The class cannot be instantiated

- C) The class is abstract
 - D) The class is static
 - **Answer: A**
33. **Which type of application can be created using Xamarin?**
- A) Web applications
 - B) Mobile applications
 - C) Desktop applications
 - D) Console applications
 - **Answer: B**
34. **What is a delegate in C#?**
- A) A type that represents references to methods with a specific parameter list and return type
 - B) A variable that holds an address
 - C) A function pointer in C++
 - D) A method that handles exceptions
 - **Answer: A**
35. **Which attribute is used to make a method callable from COM?**
- A) [ComVisible]
 - B) [DllImport]
 - C) [Interop]
 - D) [Serializable]
 - **Answer: A**
36. **What is the use of the 'params' keyword in C#?**
- A) To pass a variable number of arguments to a method
 - B) To define parameters for a method
 - C) To declare constants
 - D) To handle exceptions
 - **Answer: A**

37. **Which of the following is NOT a value type in C#?**
- A) int
 - B) float
 - C) bool
 - D) string
 - **Answer: D**
38. **What is the default access modifier for a class in C#?**
- A) Public
 - B) Private
 - C) Internal
 - D) Protected
 - **Answer: C**
39. **Which of the following is a valid way to create an instance of a class in C#?**
- A) ClassName obj = new ClassName();
 - B) ClassName obj = ClassName();
 - C) ClassName obj = CreateObject(ClassName);
 - D) ClassName obj = instantiate ClassName;
 - **Answer: A**
40. **Which method is used to compare two strings in C#?**
- A) String.Compare()
 - B) String.Equals()
 - C) String.CompareTo()
 - D) All of the above
 - **Answer: D**
41. **What is the difference between 'const' and 'readonly' in C#?**
- A) 'const' is evaluated at compile-time, 'readonly' at runtime
 - B) 'const' can be modified, 'readonly' cannot

- C) 'readonly' can be modified, 'const' cannot
 - D) Both are the same
 - **Answer: A**
42. **What is the base class of all .NET classes?**
- A) System.Object
 - B) System.Base
 - C) System.Class
 - D) System.Type
 - **Answer: A**
43. **Which method must be overridden in a custom exception class?**
- A) ToString()
 - B) GetMessage()
 - C) ToMessage()
 - D) Message()
 - **Answer: A**
44. **What is the purpose of the 'yield' keyword in C#?**
- A) To pause and return control to the calling method
 - B) To return multiple values from a method
 - C) To handle exceptions
 - D) To create a new thread
 - **Answer: A**
45. **Which method is used to read a line of text from the console in C#?**
- A) Console.Read()
 - B) Console.ReadLine()
 - C) Console.ReadText()
 - D) Console.ReadKey()
 - **Answer: B**

46. **Which keyword is used to inherit a class in C#?**
- A) inherits
 - B) extends
 - C) implements
 - D) :
 - **Answer: D**
47. **What is the use of the 'abstract' keyword in C#?**
- A) To declare a method that has no implementation
 - B) To declare a class that cannot be instantiated
 - C) Both A and B
 - D) None of the above
 - **Answer: C**
48. **Which of the following is true about an interface in C#?**
- A) It can contain fields
 - B) It can contain methods with implementation
 - C) It can contain events
 - D) It cannot be inherited
 - **Answer: C**
49. **What does the 'partial' keyword allow in C#?**
- A) To split the definition of a class or method across multiple files
 - B) To partially override a method
 - C) To declare a class as partial
 - D) To use partial methods
 - **Answer: A**
50. **What is the default return type of methods in C# if not specified?**
- A) void
 - B) int

- C) object
- D) string
- **Answer: A**