**1. Which of the following is NOT a component of the .NET Framework?**

a) Common Language Runtime (CLR)  
b) Windows Forms  
c) Java Virtual Machine  
d) Windows Presentation Foundation (WPF)  
**Answer:** c) Java Virtual Machine

**2. What is the purpose of the .NET Framework?**

a) It allows running only C# applications  
b) It enables cross-language interoperability  
c) It is used only for web development  
d) It is a database management system  
**Answer:** b) It enables cross-language interoperability

**3. Which development tool is NOT provided by Microsoft for C# programming?**

a) Visual Studio  
b) Visual C# Express  
c) Eclipse  
d) Visual Web Developer  
**Answer:** c) Eclipse

**4. Which of the following is an open-source implementation of the .NET Framework that runs on multiple operating systems?**

a) Java SE  
b) Mono  
c) .NET Core  
d) Python  
**Answer:** b) Mono

**5. What is the main function of the Common Language Runtime (CLR)?**

a) It compiles C# code to machine code  
b) It manages memory, security, and exception handling  
c) It provides an interface for creating databases  
d) It is responsible for designing UI elements  
**Answer:** b) It manages memory, security, and exception handling

**6. What is required to install Visual C# Express Edition?**

a) A Linux operating system  
b) A paid license from Microsoft  
c) An active internet connection  
d) A MacBook  
**Answer:** c) An active internet connection

**7. What is the role of the Common Type System (CTS) in .NET?**

a) It provides garbage collection  
b) It defines rules for declaring and managing data types  
c) It allows executing Python code in .NET  
d) It is a security feature in C#  
**Answer:** b) It defines rules for declaring and managing data types

**8. Which of the following is a lightweight version of Visual Studio for C# development?**

a) Visual C# Express  
b) IntelliJ IDEA  
c) Xcode  
d) NetBeans  
**Answer:** a) Visual C# Express

**9. What is the primary objective of Mono?**

a) To replace Microsoft Windows  
b) To provide cross-platform support for .NET applications  
c) To develop Java applications  
d) To create databases for .NET applications  
**Answer:** b) To provide cross-platform support for .NET applications

**10. Which of the following operating systems does Mono NOT support?**

a) Linux  
b) Mac OS  
c) Windows  
d) DOS  
**Answer:** d) DOS