



# GSSP-NET-CSHARP<sup>Q&As</sup>

GIAC Secure Software Programmer - C#.NET

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**QUESTION 1**

Julia works as a Software Developer for Mansoft Inc. She develops an application using Visual Studio .NET. The application uses a method named MyMethod, which is located in an unmanaged DLL. Julia wants MyMethod to require the application to allocate unmanaged memory, fill the data, and pass the memory address to the application. She also wants to ensure that on returning from MyMethod, the application de-allocates the unmanaged memory. What will Julia do to accomplish the task?

- A. Use the methods of the MemoryStream class.
- B. Use the Marshal class.
- C. Derive a new class from the Stream class, and override the allocation methods.
- D. Use a byte array.

Correct Answer: B

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**QUESTION 2**

You work as a Software Developer for ABC Inc. You develop a .NET application form for

registered users. You want to ensure that the form is able to validate data and provide feedback to a user whenever an invalid data is entered by him. According to you, which of the following user feedback mechanisms will be most appropriate?

- A. ErrorProvider component
- B. Tool tip
- C. Status bar
- D. Color scheme

Correct Answer: A

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**QUESTION 3**

You work as a Software Developer for ABC Inc. You use C# .NET to develop a windows application. The application will implement a role-based authorization scheme that is based on a Microsoft SQL Server database of user names. Users will enter their names in a text box named UserName. You must ensure that users are assigned the supervisor role and the PG role by default. Which of the following code segments will you use to accomplish this task?

- A. `GenericIdentity identity = new GenericIdentity(UserName.Text); string[] RoleArray = {"Supervisor", "PG"};  
GenericPrincipal principal = new GenericPrincipal(identity, RoleArray);`
- B. `GenericIdentity identity = new GenericIdentity(UserName.Text); string[] RoleArray = {"Supervisor", "PG"};  
WindowsPrincipal principal = new WindowsPrincipal(identity);`
- C. `WindowsIdentity identity = new WindowsIdentity.GetCurrent(); string[] RoleArray = {"Supervisor", "PG"};  
GenericPrincipal principal = new GenericPrincipal(identity, RoleArray);`



D. `WindowsIdentity identity = new WindowsIdentity.GetAnonymous(); string[] RoleArray = {"Supervisor", "PG"}; WindowsPrincipal principal = new GenericPrincipal(identity, RoleArray);`

Correct Answer: A

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#### QUESTION 4

John works as a Web Developer for ProLabs Inc. He develops an ASP.NET application, named

MyWebApp1, using Visual Studio .NET. One of the pages in the application is named as Page1.aspx, which does not need to maintain session state. To improve the performance of the application, John wants to disable session state for Page1. Which of the following actions will he take to accomplish the task?

- A. Set the `EnableViewState` attribute in the `@ Page` directive to false.
- B. Set the `DisableSessionState` attribute in the `@ Page` directive to true.
- C. In the sessionState configuration section of the application's Web.config file, set the mode attribute to off.
- D. Set the `EnableSessionState` attribute in the `@ Page` directive to false.

Correct Answer: D

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#### QUESTION 5

You work as a Software Developer for ManSoft Inc. The company uses Visual Studio.NET 2005 as its application development platform. You have recently created an application that includes the code shown below.

```
string str1 = "ABC";
```

```
string str2 = "u";
```

```
str2 += "Certify";
```

```
Console.WriteLine(str1 == str2);
```

```
Console.WriteLine((Object) str1 == (Object) str2);
```

```
Console.WriteLine(str1.Equals(str2));
```

What will be the output of the above code?

- A. False False  
False
- B. False True False
- C. True True True
- D. True False True

Correct Answer: D

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**QUESTION 6**

You work as a Software Developer for Mansoft Inc. The company uses Visual Studio.NET as its application development platform. You create an application, which will be used for e-commerce.

You want to ensure that the transactions are highly secured. For this purpose, you have to create a system to verify the identity of a potential customer. Which of the following security techniques will you use to accomplish this task?

- A. Spoofing
- B. Symmetric encryption
- C. Asymmetric encryption
- D. Digital certificate

Correct Answer: D

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**QUESTION 7**

You work as a Software Developer for Blue Well Inc. You create a mobile Web application for

mobile users. You want to ensure that a cookieless session is implemented on it. Which of the following statements are the main reasons of implementing a cookieless session on a mobile Web application?

Each correct answer represents a part of the solution. Choose two.

- A. Maintains session state of each user
- B. Stores data in Web server memory
- C. Tests mobile Web applications
- D. Ensures better compatibility with mobile devices

Correct Answer: AD

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**QUESTION 8**

Which class allows checks against the active principal using the language constructs defined for the declarative and imperative security actions?

- A. IPrincipal
- B. CodeAccessPermission
- C. PrincipalPermission
- D. SecurityPermission

Correct Answer: C

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**QUESTION 9**

You work as a Software Developer for ABC Inc. The company uses Visual Studio .NET 2008 as its application development platform. You have recently finished development of an ASP.NET Web application using .NET Framework 3.5. You have written complex foreach loops to retrieve data from collections. However, you want to modify the application, so that it uses LINQ queries in place of foreach loops. What will be the advantages of using LINQ queries instead of foreach loops?

Each correct answer represents a part of the solution. Choose all that apply.

- A. They are more concise and readable, particularly when filtering multiple conditions.
- B. They can be ported to other data sources with slight or no alteration.
- C. They provide powerful filtering, ordering, and grouping capabilities with least application code.
- D. They provide lambda expression in the form of an expression tree.

Correct Answer: ABC

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**QUESTION 10**

You work as a Windows Application Developer for ABC Inc. The company uses Visual Studio .NET 2008 as its application development platform. You create a Windows Forms application using .NET Framework 3.5. The application needs a

thread that accepts an integer parameter. You write the following code segment in the application:

```
Thread myThread = new Thread(new ParameterizedThreadStart(doWork));  
  
myThread.Start(125);
```

You are required to declare the signature of the doWork method. Which of the following method signatures will you use?

- A. public void doWork(int nCount)
- B. public void doWork(Object oCount)
- C. public void doWork()
- D. public void doWork(Delegate oCount)

Correct Answer: B

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**QUESTION 11**

Allen works as a Software Developer for ABC Inc. The company uses Visual Studio.NET as its application development platform. He creates an application using .NET Framework. He wants to encrypt all his e-mails that he sends to anyone. Which of the following will he use to accomplish the task?



A. PPP

B. FTP

C. PPTP

D. PGP

Correct Answer: D

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#### QUESTION 12

Which of the following classes will you use to specify that a string must be centered when drawn?

A. StringAlignment

B. StingFormat

C. String

D. LineAlignment

Correct Answer: B

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#### QUESTION 13

You work as an Enterprise Application Developer for ABC Inc. The company uses Visual Studio .NET 2008 as its application development platform. You create a logging utility class using .NET Framework 3.5. The utility class writes logs to event log services. You are required to ensure that the client applications that use the utility class can create an instance of the utility class only if they have access rights to write to the event log services.

What will you do?

A. Use role based security in the class constructor.

B. Use declarative security check on the assembly.

C. Use role based security on the class.

D. Use code access security on the class.

Correct Answer: D

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#### QUESTION 14

Which of the following code snippets is an example of tight encapsulation?

A. `protected int x; protected void fun(){x=5;}`

B. `int x; public void fun(){x=5;}`



- C. `public int x; public void fun() {x=5;}`
- D. `private int x; public void fun(){x=5;}`
- E. `private int x; private void fun(){x=5;}`

Correct Answer: D

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#### QUESTION 15

Mark works as a Software Developer for McRobert Inc. He develops an ASP.NET application, named App1, using Visual Studio .NET. App1 retrieves purchase orders data from a SQL Server database and displays it in a DataGrid control, named DataGrid1. Mark wants to enable users to sort data in ascending or descending order, whenever they click a column. He writes code to sort the data in DataGrid1 using the SortOrder property. The SortOrder property stores a value "ASC" for ascending order and "DESC" for descending order. Mark wants to preserve the value during postbacks. Which of the following properties of the Control class will Mark use to accomplish this?

- A. Cache
- B. State
- C. ViewState
- D. Application

Correct Answer: C

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