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## GIAC GIAC Secure Software Programmer - C#.NET

GIAC GSSP-.NET

Version Demo

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Topic Break Down

Topic	No. of Questions
Topic 1, Volume A	155
Topic 2, Volume B	128
Topic 3, Volume C	130
Topic 4, Volume D	92
Total	505



**QUESTION NO: 1**

You work as a Software Developer for ABC Inc. The company uses Visual Studio .NET as its application development platform. You are creating an assembly named Assem1 using .NET Framework. Assem1 contains a public method. The global cache contains a second assembly named Assem2. You need to ensure that the public method is only called from

Assem2. Which of the following permission classes will you use to accomplish the task?

- A. PublisherIdentityPermission
- B. DataProtectionPermission
- C. StrongNameIdentityPermission
- D. GacIdentityPermission

**ANSWER: C****QUESTION NO: 2**

You work as a Software Developer for ABC Inc. The company uses Visual Studio.NET

2005 as its application development platform. You are creating an application using .NET Framework 2.0. You are using regular expression in the application to validate email, phone number, etc. You are required to match any single character except "\n". Which of the following wildcard characters will you use to accomplish the task?

- A. x/y
- B. +
- C. ?
- D. .

**ANSWER: D****QUESTION NO: 3**

You work as a Software Developer for ABC Inc. The company uses Visual Studio.NET 2008 as its application development platform. You create an ASP.NET Web application using the .NET Framework 3.5. You create a HTTP module that is called on each and every request made by the application. It is called as part of the ASP.NET request pipeline.

Other than this, under which of the following operations will you use the HTTP module?

Each correct answer represents a complete solution. Choose three.

- A. Custom headers or footers
- B. Image server
- C. Security
- D. Statistics and logging

**ANSWER: A C D**

#### QUESTION NO: 4

You work as a Software Developer for ABC Inc. The company uses Visual Studio.NET 2005 as its application development platform. You are creating an application that reads data from and writes data to a file using the .NET Framework 2.0. You want to restrict users to read characters from a byte stream and write characters to a stream. Which of the following classes will you use to accomplish the task?

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

- A. StringReader
- B. StringWriter
- C. StreamReader
- D. StreamWriter

**ANSWER: C D**

#### QUESTION NO: 5

You work as an Application Developer for ABC Inc. You are assigned with developing a Web site that will handle information related to monthly sales of the company. You wish to secure the Web site so that only employees of the Accounts department can view the Web pages. You need to create roles for the employees of this department. The user account information will be stored in a SQL Server database named Database. You decide to do all this by using the Web Site Administration Tool. Which of the following types of security will you use to accomplish the task?

- A. Forms-based authentication
- B. Integrated Microsoft Windows authentication
- C. Basic authentication
- D. Digest authentication

**ANSWER: A****QUESTION NO: 6**

All of the following are benefits for query expressions allowed by Language-integrated query except for which one?

- A. Rich metadata
- B. Compile-time syntax checking
- C. Static typing and IntelliSense
- D. Imperative code

**ANSWER: D****QUESTION NO: 7**

You work as a Software Developer for ABC Inc. The company uses Visual Studio .NET as its application development platform. You create a class library using the .NET Framework. The library will be used to open the NSCs of computers. Later, you will set up the class library to the GAC and provide it Full Trust permission. You write down the following code segments for the socket connections:

```
SocketPermission permission = new SocketPermission(PermissionState.Unrestricted); permission.Assert();
```

A number of the applications that use the class library may not have the necessary permissions to open the network socket connections. Therefore, you are required to withdraw the assertion. Which of the following code segments will you use to accomplish the task?

- A. CodeAccessPermission.RevertDeny();
- B. permission.Demand();
- C. permission.Deny();
- D. permission.PermitOnly();
- E. CodeAccessPermission.RevertAssert();

**ANSWER: E****QUESTION NO: 8**

You work as a Software Developer for ABC Inc. The company uses Visual Studio .NET 2008 as its application development platform. You create an ASP.NET Web application using .NET Framework 3.5. You create a Web form in the application that permits users to provide personal information. You add a DropDownList control to the Web form to retrieve the residential status of users. The default item that the DropDownList control displays is the "Select Country" option. You have to ensure

that users select a country other than the default option. Which of the following validation controls should you use to accomplish this task?

- A. RangeValidator
- B. RequiredFieldValidator
- C. CustomValidator
- D. RegularExpressionValidator

**ANSWER: B**

#### QUESTION NO: 9

You work as a Software Developer for Mansoft Inc. You create an application using Visual Studio .NET 2005. You write code in the application and execute it, but it caused an error. Now, you want to find out the reason that has thrown the exception. Which of the following properties will you use to accomplish this task?

- A. Source
- B. StackTrace
- C. Message
- D. Data
- E. TraceSwitch

**ANSWER: B**

#### QUESTION NO: 10

You work as a Software Developer for ABC Inc. The Company uses .NET Framework as its application development platform. You are creating an application that will use multiple collections. Therefore, you decide to use only those collections that are available under both the System.Collections and System.Collections.Generic namespaces. Which of the following collections will you use to accomplish the task?

Each correct answer represents a complete solution. Choose three.

- A. SortedDictionary
- B. List
- C. Stack
- D. SortedList

E. Comparer

**ANSWER: C D E**

**QUESTION NO: 11**

You work as a Software Developer for ABC Inc. The company uses Visual Studio .NET

2005 as its application development platform. You are developing an application using

.NET Framework 2.0. You are required to use a datatype that will store only the numbers. The numbers should be in positive form and should not be larger than 65,535. Which of the following datatypes will you use to accomplish the task?

Each correct answer represents a complete solution. Choose two.

- A. System.UInt16
- B. ushort
- C. System.Int16
- D. int
- E. short

**ANSWER: A B**

**QUESTION NO: 12**

Sam works as a Software Developer for SamTech Inc. He creates an XML Web service, named

WebService1, using Visual Studio .NET. WebService1 uses the .NET Framework security class libraries to implement security. It implements role-based authorization based on a SQL Server database containing user names. Sam adds the following statements to the

Web service code. using System.Security.Principal; using System.Threading;

Sam wants to ensure that only validated users are permitted to access WebService1 by entering their user names and passwords in TextBox controls, named Text1 and Text2. He wants to implement imperative security check on WebService1. He also wants to ensure that users are assigned the Manager role and the Subordinate role by default. Which of the following classes will Sam use to accomplish the task?

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

- A. WindowsPrincipal
- B. GenericIdentity

- C. WindowsIdentity
- D. GenericPrincipal

**ANSWER: B D**

#### QUESTION NO: 13

You are working on an ASP.NET Web application and using .NET 2.0 as the application development platform. Authenticated users want their passwords to recover through the application. Which of the following are necessary to enable the user password recovery option for your application?

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

- A. Using an ASP.NET membership for authentication.
- B. Sending e-mail messages to the users.
- C. Using the PasswordRecovery control.
- D. Using the ChangedPassword control.

**ANSWER: A B C**

#### QUESTION NO: 14

You work as a Software Developer for Mansoft Inc. You create an ASP.NET Web application named MyWebApp. You implement a security protocol to transmit secured data between a client and a server. You try to authenticate the client computer. However, you are unable to do so, and the AuthenticationException exception is thrown. Which of the following classes will you use to accomplish this task?

Each correct answer represents a complete solution. Choose two.

- A. NegotiateStream
- B. SslStream
- C. Stream
- D. AuthenticatedStream

**ANSWER: A B**

#### QUESTION NO: 15



Roger works as a Software Developer for BlackWell Inc. He develops an application, named MyApplication1, using Visual Studio .NET. The application contains a form, named MyForm1, which will be used to set a password for a user. A password allotted to a user will be case-sensitive. MyForm1 contains several controls including two TextBox controls, named txtPassword and txtConfirm, respectively. The txtMyPassword control is used to accept a string from a user. The string entered in txtPasword will be used as the password for the user. In txtConfirm, the user has to retype the string that he enters in txtPassword. This will ensure that there are no typing errors. MyForm1 also contains a Button control, named cmdSetPassword, which when clicked will set the password for the user.

Before setting the password for a user, Roger wants to ensure that the two text boxes contain the same string. In order to accomplish this, he decides to use the StrComp function. The password for a user can only be set if the StrComp function returns 0. He has not used an Option Compare statement in the code. Which of the following statements can

Roger use to compare the two strings?

Each correct answer represents a complete solution. Choose two.

- A. StrComp(txtPassword.Text, txtConfirm.Text, CompareMethod.Binary)
- B. StrComp(txtPassword.Text, txtConfirm.Text, CompareMethod.Text)
- C. StrComp(txtPassword.Text, txtConfirm.Text, CompareMethod.CaseSensitive)
- D. StrComp(txtPassword.Text, txtConfirm.Text)

**ANSWER: A D**

#### QUESTION NO: 16

David works as a Software Developer for McRobert Inc. He develops a Windows-based application, named App1, using Visual C# .NET. The application contains a Form control, named Form1. He wants to write code to initialize class-level variables, named Var1, Var2, and Var3, as soon as Form1 is instantiated. Which of the following code will he use to accomplish this?

- A. 

```
private void Form1_Initialize(System.Object sender, System.EventArgs e)
{
    int Var1 = 20; int Var2 = 40; int Var3 = 60;
}
```
- B. 

```
private void Form1_Load(System.Object sender, System.EventArgs e)
{
    int Var1 = 20; int Var2 = 40; int Var3 = 60;
}
```
- C. 

```
private void Form1_New(System.Object sender, System.EventArgs e)
{
    int Var1 = 20; int Var2 = 40; int Var3 = 60; }
```
- D. 

```
private void Form1_Create(System.Object sender, System.EventArgs e)
{
    int Var1 = 20; int Var2 = 40; int Var3 = 60;
}
```

**ANSWER: B****QUESTION NO: 17**

You work as a Software Developer for ABC Inc. The company uses Visual Studio .NET as its application development platform. You are creating an assembly named Assem1 using .NET Framework. Assem1 contains a public method. The global cache contains a second assembly named Assem2. You need to ensure that the public method is only called from

Assem2. Which of the following permission classes will you use to accomplish the task?

- A. DataProtectionPermission
- B. PublisherIdentityPermission
- C. StrongNameIdentityPermission
- D. GacIdentityPermission

**ANSWER: C****QUESTION NO: 18**

You work as a Software Developer for InfoTech Inc. You develop an application named MyApp that works as a scientific calculator. A user inputs data and retrieves the calculated results based on the input values. The application uses a SQL database that contains two tables. One table contains data related to standard calculation specifications and the other table stores input values entered by the user. You want to ensure that the user is able to retrieve appropriate data fast. Which of the following actions will you take to accomplish the task?

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

- A. Use more than one component to process input data.
- B. Write code that performs multiple tasks simultaneously.
- C. Run multiple processes on a single thread.
- D. Use a single component to process input data.
- E. Run multiple processes on separate threads.

**ANSWER: B D E****QUESTION NO: 19**

Daniel works as a Software Developer for GenTech Inc. He develops an ASP.NET application, named

App1, using Visual Studio .NET. He creates an interface in App1, named Employees. The Employees interface contains declaration for a method, named Method1. Daniel creates another interface, named HeadOfDept. HeadOfDept inherits from the Employees interface and contains the declaration for a method, named Method2. He then creates a class named Manager as follows:

```
public class Manager : HeadOfDept
```

Which of the following statements about the application are true?

Each correct answer represents a complete solution. Choose all that apply.

- A. The Manager class must implement the Method1 method.
- B. The Manager class implements the HeadOfDept interface.
- C. The Manager class must implement the Method2 method.
- D. The Method1 method can have any access modifier.

**ANSWER: A B C**

#### QUESTION NO: 20

You work as a Software Developer for ABC Inc. The company uses Visual Studio .NET 2008 as its application development platform. You are creating an ASP.NET Web application using .NET Framework 3.5. The application will be used to share any type of photos on Internet. All the photos should be accessible in various sizes and formats. You need to add a download feature that can be easily maintained. You also need to make sure that only a single version of all photos is stored on a SQL server database. What will you do?

- A. Create an HttpModule class to determine the request for the photo download. Process the photo according to the given format and size, and after that return the processed photo in the response.
- B. Create a user control that converts the photo to the required format and size.
- C. Create an HttpHandler class to determine the request for the photo download. Process the photo according to the given format and size, and after that return the processed photo in the response.
- D. Create an ActiveX control that converts the photo to the required format and size.

**ANSWER: C**