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**Vendor:** GIAC

**Exam Code:** GSSP-.NET

**Exam Name:** GIAC GIAC Secure Software Programmer -  
C#.NET

**Version:** Demo

**QUESTION NO: 1**

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: 2**

You work as a Software Developer for ABC Inc. The company uses Visual Studio .NET 2005 as its application development platform. You create an application for the company. You need to validate the phone number passed to a class as a parameter in the application. Which of the following is the most effective way to verify that the format of the data matches a phone number?

- A. Regular expressions
- B. Nested If statements
- C. Use the String.Length property
- D. A try/catch block

**Answer: A**

**QUESTION NO: 3**

You work as a Software Developer for ABC Inc. The company uses Visual Studio .NET 2005 as its application development platform. You have recently finished development of a Windows application using .NET Framework. Users report that the application is not running properly. When the users try to complete a particular action, the following error message comes out:

Unable to find assembly 'myservices, Version=1.0.0.0, Culture=neutral,

---

PublicKeyToken=29b5ad26c9de9b95'.

You notice that the error occurs as soon as the application tries to call functionality in a serviced component that was registered by using the following command:

```
regsvcs.exe myservices.dll
```

You must make sure that the application can call the functionality in the serviced component with no exceptions being thrown. What will you do to accomplish this task?

- A. Run the command line tool: regasm.exe myservices.dll.
- B. Copy the serviced component assembly into the C:\Program Files\ComPlus Applications folder.
- C. Run the command line tool: gacutil.exe /i myservices.dll.
- D. Copy the serviced component assembly into the C:\WINDOWS\system32\Com folder.

**Answer: C**

#### **QUESTION NO: 4**

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

**Answer: D**

#### **QUESTION NO: 5**

You work as a Software Developer for ABC Inc. The company has several branches worldwide. The company uses Visual Studio.NET 2005 as its application development platform. You have recently finished the development of an application using .NET Framework 2.0. The application can be used only for cryptography. Therefore, you have implemented the application on a computer. What will you call the computer that implemented cryptography?

- A. Cryptographic toolkit

- 
- B. Cryptosystem
  - C. Cryptographer
  - D. Cryptanalyst

**Answer: B**

#### **QUESTION NO: 6**

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

**Answer: D**

#### **QUESTION NO: 7**

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

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**D. Digest authentication**

**Answer: A**

**QUESTION NO: 8**

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?

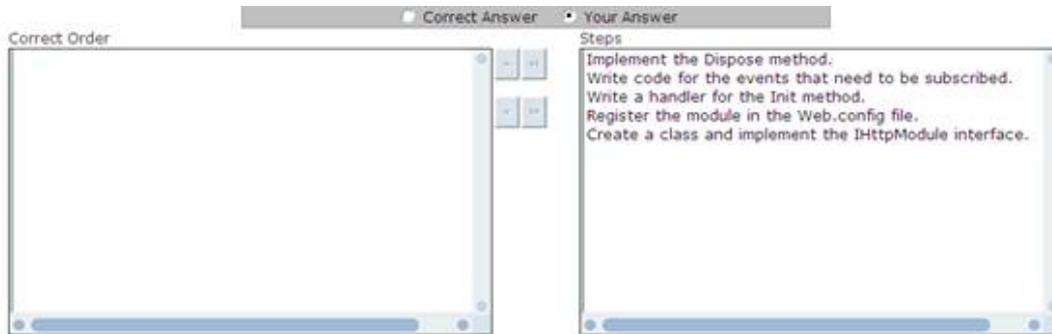
- A. False**  
False  
False
- B. False**  
True  
False
- C. True**  
True  
True
- D. True**  
False  
True

**Answer: D**

**QUESTION NO: 9**

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 want to use a HTTP module called on each and every request made by the application. It is called as part of the ASP.NET request pipeline. It has right to access life-cycle events throughout the request. You also want to ensure that the HTTP module allows a user to inspect incoming and outgoing requests and take appropriate action based on the request. What will be the correct order to create the HTTP module?



A.

Answer: A

### QUESTION NO: 10

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. The application contains two HTML pages named Error.htm and

PageNotFound.htm. You want to make sure that the following requirements are met:

I When any user requests a page that does not exist, the PageNotFound.htm page is displayed.

I When any other error occurs, the Error.htm page is displayed. Which of the following code segments will you add to the Web.config file to accomplish this task?

A. `<customErrors mode="On" defaultRedirect="Error.htm">  
<error statusCode="404" redirect="PageNotFound.htm"/>  
</customErrors>`

B. `<customErrors mode="Off">  
<error statusCode="400" redirect="Error.htm"/>  
<error statusCode="404" redirect="PageNotFound.htm"/>  
</customErrors>`

C. `<customErrors mode="On">  
<error statusCode="400" redirect="Error.htm"/>`

---

```
<error statusCode="404" redirect="PageNotFound.htm"/>
```

```
</customErrors>
```

```
D. <customErrors mode="Off" defaultRedirect="Error.htm">
```

```
<error statusCode="404" redirect="PageNotFound.htm"/>
```

```
</customErrors>
```

**Answer: A**

### QUESTION NO: 11

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**

### QUESTION NO: 12

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 the .NET Framework 3.5. You host the application on a Web farm that consists of three Web servers. You should configure the ASP.NET application for session state to meet the following requirements:

| Session state data should not be lost if a server fails.

| Session state must be maintained across browser requests by the same user.

You are required to configure the `Web.config` file to meet these requirements. Which of the following configurations will you use?

- 
- A. <sessionState mode="StateServer"/>
  - B. <sessionState mode="InProc"/>
  - C. <sessionState mode="Custom"/>
  - D. <sessionState mode="SQLServer"/>

**Answer: D**

### QUESTION NO: 13

You work as a Software Developer for ABC Inc. The company has several branches worldwide. The company uses Visual Studio .NET 2005 as its application development platform. You are creating an application using .NET Framework 2.0. The application will be used by all the branches of the company. You are using the CompareInfo class for culture-sensitive string comparisons. You write the following code in the application:

```
String s1 = "C rtify";
```

```
String s2 = "c rtify";
```

```
String s3 = "c rtify";
```

You need to compare the s1 string with the s2 string and ensure that the string comparison must ignore case. Which of the following code segments will you use to accomplish the task?

- A. CompareInfo cmp = CultureInfo.InvariantCulture.CompareInfo;  
Console.WriteLine(cmp.Compare(s1, s2, CompareOptions.IgnoreCase));
- B. CompareInfo cmp = CultureInfo.InvariantCulture.CompareInfo;  
Console.WriteLine(cmp.Compare(s1, s2, CompareOptions.None));
- C. CompareInfo cmp = CultureInfo.InvariantCulture.CompareInfo;  
Console.WriteLine(cmp.Compare(s1, s2, CompareOptions.Ordinal));
- D. CompareInfo cmp = CultureInfo.InvariantCulture.CompareInfo;  
Console.WriteLine(cmp.Compare(s1, s2, CompareOptions.OrdinalIgnoreCase));

**Answer: A**

### QUESTION NO: 14

Andrew works as a Software Developer for Mansoft Inc. The company's network has a Web server that hosts the company's Web site. Andrew wants to enhance the security of the Web site by implementing *Secure Sockets Layer* (SSL). Which of the following types of encryption does SSL use?

Each correct answer represents a complete solution. Choose two.

- 
- A. Symmetric
  - B. Secret
  - C. IPSec
  - D. Asymmetric

**Answer: A,D**

**QUESTION NO: 15**

You work as a Software Developer for Mansoft Inc. You create an application and use it to create code access security policies. Which of the following tools will you use to examine and modify code access security policies from a batch file?

- A. Tlbimp.exe
- B. GacUtil.exe
- C. Sn.exe
- D. Caspol.exe
- E. StoreAdm.exe

**Answer: D**

**QUESTION NO: 16**

You can use LINQ in an ASP.NET application through the LinqDataSource control, the \_\_\_\_\_ control, or by creating LINQ queries.

- A. ADO.NET DataSet
- B. ObjectDataSource
- C. SqlDataSource
- D. XmlDataSource

**Answer: B**

**QUESTION NO: 17**

Which of the following techniques is used to transmit passwords during authentication?

- A. Asymmetric encryption

- 
- B. Hashing
  - C. Salted Hash
  - D. Symmetric encryption

**Answer: C**

**QUESTION NO: 18**

Which of the following session and instancing modes will you set if you require a sessionfull binding and want to create a new instance object for each client request?

- A. Set SessionMode to Allowed and IntsanceMode to PerSession.
- B. Set SessionMode to Required and IntsanceMode to Single.
- C. Set SessionMode to Required and IntsanceMode to PerCall.
- D. Set SessionMode to Allowed and IntsanceMode to PerCall.

**Answer: C**

**QUESTION NO: 19**

In .NET Framework 3.5, you can create and access values that persist from one application session to another. What are these values called?

- A. Objects
- B. Settings
- C. Properties
- D. Attributes

**Answer: B**

**QUESTION NO: 20**

Session variables can be any valid \_\_\_\_\_.

- A. .NET Framework type
- B. Integer type
- C. SessionStateItemCollection object
- D. Object type

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**Answer: A**

**QUESTION NO: 21**

In which of the following objects are *session* variables stored?

- A. SessionStateStoreData
- B. SessionStateModule
- C. SessionStateItemCollection
- D. SessionStateStoreProviderBase

**Answer: C**

**QUESTION NO: 22**

Which of the following utilities is used to encrypt credentials and session state connection strings?

- A. Aximp.exe
- B. Aspnet\_regiis.exe
- C. Aspnet\_compiler.exe
- D. Aspnet\_setreg.exe

**Answer: D**

**QUESTION NO: 23**

Which of the following modifiers is not available in C#?

- A. private
- B. friend
- C. internal
- D. public
- E. protected

**Answer: B**

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**QUESTION NO: 24**

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

**Answer: B**

**QUESTION NO: 25**

Which of the following is a reference type in Visual C#?

- A. primitive types
- B. strings
- C. enums
- D. structures

**Answer: B**

**QUESTION NO: 26**

Which of the following data structures is used for storing reference data types?

- A. Stack
- B. Queue
- C. Hard disk
- D. Heap

**Answer: D**

**QUESTION NO: 27**

Which of the following is a restriction operator in LINQ?

- A. GROUPBY

- 
- B. WHERE
  - C. THENBY
  - D. SELECTMANY

**Answer: B**

**QUESTION NO: 28**

Which of the following modifiers in C# will you use if you do NOT want a custom-build component to be a base class?

- A. sealed
- B. virtual
- C. override
- D. static

**Answer: A**

**QUESTION NO: 29**

Which of the following attributes of the customErrors element is used to specify whether custom errors are enabled, disabled, or shown only to remote clients?

- A. Off
- B. Mode
- C. On
- D. RemoteOnly

**Answer: B**

**QUESTION NO: 30**

What is the main purpose of a try-catch block?

- A. To obtain and use resources that are being caught.
- B. To signal the occurrence of an exception during the program execution.
- C. To catch and handle an exception generated by an executable code.
- D. To ensure that the necessary cleanup of external resources is done immediately.

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**Answer: C**

**QUESTION NO: 31**

ASP.NET version 2.0 health monitoring supports an \_\_\_\_\_.

- A. Event driven model
- B. Event provider model
- C. Event log model
- D. Event API model

**Answer: B**

**QUESTION NO: 32**

Which of the following APIs is used to collect information about any running state and any errors that occur within an ASP.NET application?

- A. Profile API
- B. Health Monitoring API
- C. Error Handling API
- D. Personalization API

**Answer: B**

**QUESTION NO: 33**

The <customErrors> element does not apply to errors that occur in \_\_\_\_\_.

- A. XML Web services
- B. Windows services
- C. Web services directory
- D. Web services

**Answer: A**

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**QUESTION NO: 34**

Which of the following syntaxes is used for the EncryptionAlgorithm property of the Message class?

- A. [MessagingDescriptionAttribute("MessageEncryptionAlgorithm")]  
public EncryptionAlgorithm : EncryptionAlgorithm { }
- B. [MessagingDescriptionAttribute("MessageEncryption")]  
public EncryptionAlgorithm EncryptionAlgorithm { }
- C. [MessagingDescriptionAttribute("MessageEncryption")]  
public EncryptionAlgorithm EncryptionAlgorithm { get; set; }
- D. [MessagingDescriptionAttribute("MessageEncryptionAlgorithm")]  
public EncryptionAlgorithm : EncryptionAlgorithm { get; set; }

**Answer: C**

**QUESTION NO: 35**

Which of the following is the best encryption algorithm to encrypt and decrypt messages?

- A. AES
- B. TripleDES
- C. DES
- D. RSA

**Answer: D**

**QUESTION NO: 36**

Which of the following is not a method of controlling traffic through a firewall?

- A. Application filtering
- B. Encryption-level filtering
- C. Stateful inspection
- D. Packet filtering

**Answer: B**

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**QUESTION NO: 37**

Which of the following algorithms supports key lengths from 128 bits to 192 bits in increments of 64 bits?

- A. DESCryptoServiceProvider
- B. TripleDESCryptoServiceProvider
- C. TripleDES
- D. AESCryptoServiceProvider

**Answer: C**

**QUESTION NO: 38**

Which of the following provide simplified access to ASP.NET AJAX login, roles, and profile services from Windows Forms and WPF applications?

- A. Entity Framework
- B. AJAX application services
- C. Client application services
- D. Sync Framework

**Answer: C**

**QUESTION NO: 39**

Which of the following providers is a block cipher that encrypts and decrypts data in blocks of 8 bytes?

- A. RNGCryptoServiceProvider
- B. SHA1CryptoServiceProvider
- C. RC2CryptoServiceProvider
- D. RSACryptoServiceProvider

**Answer: C**

**QUESTION NO: 40**

Which of the following is required to be implemented by marshal-by-value objects to implement

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custom serialization rules?

- A. ISerializable
- B. SerializableAttribute
- C. ISerializableAttribute
- D. ISerialize

**Answer: A**

**QUESTION NO: 41**

Which of the following is not a type of Remote object?

- A. Server-activated object
- B. Client-activated object
- C. Singleton object
- D. Single call object

**Answer: A**

**QUESTION NO: 42**

Which of the following is an exception of background threads as compared to foreground threads?

- A. A background thread does not continue the managed execution environment running.
- B. A background thread does not affect the outcome of an unhandled exception.
- C. A background thread belongs to the managed thread pool.
- D. A background thread changes to a foreground thread at any time.

**Answer: A**

**QUESTION NO: 43**

Which of the following classes limits the number of threads that can access a resource or pool of resources concurrently?

- A. Semaphore
- B. Mutex

- 
- C. Thread
  - D. Monitor

**Answer: A**

**QUESTION NO: 44**

Which of the following is TRUE about a managed thread?

- A. It is a foreground thread.
- B. It is a managed assembly.
- C. It is either a background thread or a foreground thread.
- D. It is a background thread.

**Answer: C**

**QUESTION NO: 45**

Which of the following security methods is used when the code requires a specific set of permissions, which are not known until runtime?

- A. Role-Based Security
- B. Windows NT Security
- C. Imperative Security
- D. Declarative Security

**Answer: C**

**QUESTION NO: 46**

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

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**Answer: D**

**QUESTION NO: 47**

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

**Answer: C**

**QUESTION NO: 48**

Which of the following elements will you use to add a script to the ScriptManager declaratively?

- A. <connectionStrings>
- B. <Scripts>
- C. <configuration>
- D. <script>

**Answer: B**

**QUESTION NO: 49**

ECMAScript is supported in many applications and is commonly known as \_\_\_\_\_.

- A. VBScript
- B. AJAX
- C. JavaScript
- D. Script

**Answer: C**

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