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GIAC Secure Software Programmer - C#.NET

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QUESTION 1

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

Correct Answer: C

QUESTION 2

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 fold er.

C. Run the command line tool: gacutil.exe /i myservices.dll.

D. Copy the serviced component assembly into the C:\WINDOWS\system32\Com folder.

Correct Answer: C

QUESTION 3

ECMAScript is supported in many applications and is commonly known as _____.

A. VBScript

B. AJAX

C. JavaScript

D. Script

Correct Answer: C

QUESTION 4

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

Correct Answer: D

QUESTION 5

Maria works as a Software Developer for BlueWell Inc. She develops an application, named App1, using Visual C# .NET. The application displays employee details from a SQL Server database. Maria wants to use a string array, named MyArray, in the application code to store employee names. Which of the following statements will she use to declare MyArray?

A. string MyArray[9] = new string;

B. string[] MyArray = new string[0 to 9];

C. string[] MyArray = new string[9];

D. Option Base 1 string[] MyArray = new string[9];

E. Option Base 0 string[] MyArray = new string[9];

Correct Answer: C

QUESTION 6

Maria works as a Software Developer for ABC Inc. She develops a Console application using Visual Studio .NET 2005. She writes the following code in the application:

String st="Hello World";

int MyBegin=1;

int MyEnd=3;

Console.WriteLine(st.Substring(MyBegin, MyEnd));

What will happen when she tries to compile and execute the application?

A. The application will compile successfully and display "el" as the output.

B. The application will compile successfully and display "ell" as the output.

C. A compile-time error will occur stating "No method matching substring(int, char) exists".

D. The application will compile successfully and display "Hel" as the output.

Correct Answer: B

QUESTION 7

You work as a Software Developer for ABC Inc. You have created a console application that uses two threads, named thread1 and thread2. You need to modify the code to prevent the execution of thread1 until thread2 completes its execution. Which of the following steps will you take to accomplish this task?

A. Call the SpinWait() method of thread1.

B. Use a WaitCallBack delegate to synchronize the threads.

C. Call the sleep() method of thread1.

D. Configure thread1 to run at a lower priority.

E. Configure thread2 to run at a higher priority.

Correct Answer: B

QUESTION 8

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:

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C. Run the command line tool: gacutil.exe /i myservices.dll.

D. Copy the serviced component assembly into the C:\WINDOWS\system32\Com folder.

Correct Answer: C

QUESTION 9

Hannah works as a Programmer in a college of Information Technology. The company uses Visual Studio .NET as its application development platform. The Dean of the college wants to obtain the performance report of each student. Hannah develops an application named StudentPerformanceReport by using Visual C# .NET. This application uses a SQL Server database named Database1 and a stored procedure named PROC1. PROC1 executes a query that returns the internal assessment result of each student.

Hannah uses a TextBox control named AssessmentText in the application form named MyForm. She wants to display the total test result of each student in the AssessmentText text box control.

StudentPerformanceReport uses a SqlCommand object to run PROC1. Hannah wants to write code to call PROC1. PROC1 contains an output parameter and displays its value as "@AssessmentResult" in text format. Which of the following code segments can Hannah use to accomplish this task?

Each correct answer represents a complete solution. Choose two.

A. AssessmentText.Text = comm.Parameters["@AssessmentResult"].SourceColumn;

B. AssessmentText.Text = (string)comm.Parameters["@AssessmentResult"].Value;

C. AssessmentText.Text = comm.Parameters["@AssessmentResult"].Value.ToString();

D. AssessmentText.Text = comm.Parameters["@AssessmentResult"].ToString();

Correct Answer: BC

QUESTION 10

You work as an Application Developer for ABC Inc. The company uses Visual Studio.NET 2005 as its application development platform. You are creating an application that will match the location in a given string. You need to ensure that the match must begin at either the first character of the given string or the last character of a line in the string. Which of the following characters will you use to accomplish the task?

A. \A

B. $

C. ^

D. \Z

Correct Answer: C

QUESTION 11

You work as a Software Developer for ABC Inc. The Company uses .NET Framework 2.0 as its application development platform. You are creating an application that will perform different types of comparison operations. Therefore, you decide to use only those methods that are available in all the classes of .NET Framework 2.0. Which of the following methods will you use to accomplish the task?

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

A. Compare

B. ToString

C. Copy

D. Equals

E. GetType

Correct Answer: BDE

QUESTION 12

You work as a Software Developer for ABC Inc. The company uses Visual Studio .NET as its application development platform. You create the definition for a Car class by using the following code segment:

public class Car {

[XmlAttribute(AttributeName = "category")]

public string CarType;

public string model;

[XmlIgnore]

public int year;

[XmlElement(ElementName = "mileage")]

public int miles;

public ConditionType condition;

public Car() {

}

public enum ConditionType {

[XmlEnum("Poor")] BelowAverage,

[XmlEnum("Good")] Average,

[XmlEnum("Excellent")] AboveAverage

}}

You create an instance of the Car class. You fill the public fields of the Car class as shown in the table below:

Name	Description
CarType	Sedan
Model	Racer
Year	2002
Miles	15000
Condition	AboveAverage

You are required to recognize the XML block that is produced by the Car class after serialization. Which of the following XML blocks represents the output of serializing the Car class?

A. racer 15000 Excellent

B. sedan racer 15000 Excellent

C.