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Questions and Answers No.: 11-20 (231Q&As)

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QUESTION 11
You are a developer at the company xyx.
You have been asked to implement a method to safely send data to another machine.
What kind of algorithm best fits the requirements?

A. Symmetric algorithm
B. Asymmetric algorithm
C. Hashing algorithm
D. X509Certificate
E. None of the above

Answer: B

QUESTION 12
You are a developer at the company xyx.
You have been asked to implement a method to handle password encryption without offering the possibility to restore the password.
What kind of algorithm best fits the requirements?

A. Symmetric algorithm
B. Asymmetric algorithm
C. Hashing algorithm
D. X509Certificate
E. None of the above

Answer: C

QUESTION 13
Which of the following code snippets will you use to calculate the secure hash of a byte array called userData? If you already have created an algorithm object called sha.

A. userData.GetHashCode(sha);
B. sha.ComputeHash(userData);
C. sha.GetHash(userData);
D. sha.EncryptHash(userData);

Answer: B

QUESTION 14
Which of the following code snippets will you use to encrypt an array called userData that can be decrypted by anyone logged in on the current machine, and without using any entropy?

A. ProtectedData.Protect(userData, null, DataProtectionScope.CurrentUser);
B. ProtectedData.Protect(userData, null, DataProtectionScope.LocalMachine);
C. ProtectedData.Encrypt(userData, null, DataProtectionScope.CurrentUser);
D. ProtectedData.Unprotect(userData, null, DataProtectionScope.LocalMachine);

Answer: B

QUESTION 15
You are developing an application that generates code.

The application includes the following code segment. (Line numbers are included for reference only.)

```
01 public string GenerateCode(string className,string methodName)
02 {
03    ...
04    var ct = new CodeTypeDeclaration(className);
05
06    ...
07 }
```

You need to ensure that code generated by the GenerateCode() method represents a class that can be accessed by all objects in its application domain.
Which two code segments can you insert at line 05 to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

A. `ct.Attributes = MemberAttributes.Public;`

B. `ct.IsStruct = true;`
    `ct.Attributes = MemberAttributes.Public;`

C. `ct.IsClass = true;`
    `ct.Attributes = MemberAttributes.Public;`

D. `ct.IsClass = true;`
    `ct.Attributes = MemberAttributes.Private;`

A. Option A
B. Option B
C. Option C
D. Option D

Answer: AC

QUESTION 16
You are creating a class named Employee.
The class exposes a string property named EmployeeType.
The following code segment defines the Employee class. (Line numbers are included for reference only.)
The EmployeeType property value must be accessed and modified only by code within the Employee class or within a class derived from the Employee class.
You need to ensure that the implementation of the EmployeeType property meets the requirements.
Which two actions should you perform? (Each correct answer represents part of the complete solution. Choose two.)

```
01 public class Employee
02 {
03    internal string EmployeeType
04    {
05      get;
06      set;
07    }
08 }
```

A. Replace line 05 with the following code segment:
   `protected get;`
B. Replace line 06 with the following code segment:
   `private set;`
C. Replace line 03 with the following code segment:
   `public string EmployeeType`
D. Replace line 05 with the following code segment:
   `private get;`
E. Replace line 03 with the following code segment:
   `protected string EmployeeType`
F. Replace line 06 with the following code segment:
   `protected set;`

Answer: AF

QUESTION 17
You are creating an application that manages information about zoo animals.
The application includes a class named Animal and a method named Save.
The Save() method must be strongly typed. It must allow only types inherited from the Animal
class that uses a constructor that accepts no parameters.
You need to implement the Save() method.
Which code segment should you use?

```
C A.   public static void Save<T>(T target) where T : new(), Animal
       {
           ...
       }


C B.   public static void Save<T>(T target) where T : Animal
       {
           ...
       }


C C.   public static void Save<T>(T target) where T : Animal, new()
       {
           ...
       }


C D.   public static void Save(Animal target)
       {
           ...
       }
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

QUESTION 18
Drag and Drop Question
You are developing a class named ExtensionMethods.
You need to ensure that the ExtensionMethods class implements the IsUrl() method on string objects.
How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
public static class ExtensionMethods

public class ExtensionMethods

this String str

String str

protected static class ExtensionMethods
```

```
{
    public static bool IsUrl(
                                                    )
    {
        var regex = new Regex(
            "(https?://)?([A-Za-z9-0-]*\\.)?([A-Za-z0-9-]*)" +
            "\\.[A-Za-z0-9]*/?.*");
        return regex.IsMatch(str);
    }
}
```

Answer:

```
public static class ExtensionMethods

public class ExtensionMethods

this String str

String str

protected static class ExtensionMethods
```

```
public static class ExtensionMethods
{
    public static bool IsUrl(
        this String str
                                            )
    {
        var regex = new Regex(
            "(https?://)?([A-Za-z9-0-]*\\.)?([A-Za-z0-9-]*)" +
            "\\.[A-Za-z0-9]*/?.*");
        return regex.IsMatch(str);
    }
}
```

QUESTION 19
You are implementing a method named Calculate that performs conversions between value types and reference types.
The following code segment implements the method. (Line numbers are included for reference only.)
You need to ensure that the application does not throw exceptions on invalid conversions.
Which code segment should you insert at line 04?

```
01 public static void Calculate(float amount)
02 {
03    object amountRef = amount;
04
05    Console.WriteLine(balance);
06 }
```

A. `int balance = (int)(float)amountRef;`
B. `int balance = (int)amountRef;`
C. `int balance = amountRef;`
D. `int balance = (int) (double) amountRef;`

Answer: A

QUESTION 20
You are creating a console application by using C#.
You need to access the application assembly.
Which code segment should you use?

A. `Assembly.GetAssembly(this);`
B. `This.GetType();`
C. `Assembly.Load ();`
D. `Assembly.GetExecutingAssembly ();`

Answer: D