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Software Development Fundamentals

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QUESTION 1

Which programming language is characterized as client-side, dynamic and weakly typed?

A. ASP.NET

B. C#

C. JavaScript

D. HTML

Correct Answer: D

QUESTION 2

Which two types of information should you include in an effective test case? (Choose two.)

A. the expected result from testing the case

B. multiple actions combined as a single step to test the case

C. any pre-conditions necessary to test the case

D. the stakeholders who originated the test case

Correct Answer: AB

QUESTION 3

In this XHTML code sample, what will cause an error?

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
    <head>
        <title>The Title</title>
    </head>
    <body>
        <h1>This is a Heading.</h1>
        <p>This is a paragraph</p><br>
    </body>
</html>
```

A. All tags are not in uppercase.

B. The body tag is missing a background attribute.

C. The line break tag is incorrectly formatted.

D. The HTML tags do not read XHTML.

Correct Answer: C

In XHTML, the
tag must be properly closed, like this:
.

QUESTION 4

Which language allows you to dynamically create content on the client side?

A. Cascading Style Sheets (CSS)

B. JavaScript (JS)

C. Extensible Markup Language (XML)

D. Hypertext Markup Language (HTML)

Correct Answer: B

JavaScript (JS) is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed.

QUESTION 5

You execute the following code.

```
bool beakerFull = true;
bool flameOn = false;
int iResult;

switch (beakerFull)
{
    case true:
            switch (flameOn)
            {
                    case true:
                    iResult = 1;
                    break;
                    case false:
                    iResult = 2;
                    break;
            }
    break;
    case false:
            switch (flameOn)
            {
                    case false:
                    iResult = 3;
                    break;
                    case true:
                    iResult = 4;
                    break;
            }
    break;
}
```

What will the variable result be?

A. 1

B. 2

C. 3

D. 4

Correct Answer: B

QUESTION 6

This question requires that you evaluate the underlined text to determine if it is correct.

Arguments are passed to console applications as a Hashtable object.

Select the correct answer if the underlined text does not make the statement correct. Select "No change is needed\\'\\' if the underlined text makes the statement correct.

A. No change is needed

B. String Array

C. StoredProcedureCollection

D. Dictionary

Correct Answer: B

QUESTION 7

For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

Hot Area:

Answer Area

Test Behavior	Yes	No
The primary goal cf unit testing is tc take the smallest piece of testable software in the application, isolate it from the remainder of the code, anc determine whether it behaves exactly as expected.	○	○
In unit testing, each unit is tested separately before integrating the units into modules to test the interfaces between modules.	○	○
The driver that you use in unit testing simulates a calling unit and the stub simulates a called unit.	○	○

Hot Area:

Answer Area

Test Behavior	Yes	No
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Correct Answer:

Answer Area

Test Behavior	Yes	No
The primary goal of unit testing is to take the smallest piece of testable software in the application, isolate it from the remainder of the code, and determine whether it behaves exactly as expected.	●	○
In unit testing, each unit is tested separately before integrating the units into modules to test the interfaces between modules.	●	○
The driver that you use in unit testing simulates a calling unit and the stub simulates a called unit.	●	○

QUESTION 8

You execute the following code.

```
For i = 0 to 100
    If I Mod 2 <> 0 Then
        Console.WriteLine("Hello")
    End If
Next
```

How many times will the word Hello be printed?

A. 49

B. 50

C. 51

D. 100

Correct Answer: B

The mod operator computes the remainder after dividing its first operand by its second. All numeric types have predefined remainder operators. In this case the reminder will be nonzero 50 times (for i with values 1, 3, 5,..,99).

QUESTION 9

You are developing a database that other programmers will query to display race results.

You need to provide the ability to query race results without allowing access to other information in the database.

What should you do?

A. Add an AFTER UPDATE trigger on the result table to reject updates.

B. Create an index on the result table.

C. Place the query into a stored procedure.

D. Disable implicit transactions.

Correct Answer: A

QUESTION 10

A class named Manager is derived from a parent class named Employee. The Manager class includes characteristics that are unique to managers.

Which term is used to describe this object-oriented concept?

A. inheritance

B. data modeling

C. data hiding

D. encapsulation

Correct Answer: A

Classes (but not structs) support the concept of inheritance. A class that derives from another class (the base class) automatically contains all the public, protected, and internal members of the base class except its constructors and

destructors.

Incorrect:

not D: Encapsulation is sometimes referred to as the first pillar or principle of object-oriented programming. According to the principle of encapsulation, a class or struct can specify how accessible each of its members is to code outside of the

class or struct. Methods and variables that are not intended to be used from outside of the class or assembly can be hidden to limit the potential for coding errors or malicious exploits.

QUESTION 11

Which function does Simple Object Access Protocol (SOAP) provide when using Web services?

A. directory of registered Web services

B. communications protocol

C. security model

D. model for describing Web services

Correct Answer: B

SOAP, originally defined as Simple Object Access Protocol, is a protocol specification for exchanging structured information in the implementation of web services in computer networks. It relies on XML Information Set for its message format, and usually relies on other application layer protocols, most notably Hypertext Transfer Protocol (HTTP) or Simple Mail Transfer Protocol (SMTP), for message negotiation and transmission.

QUESTION 12

You plan to create an application for your company. The application will run automated routines and write the results to a text-based log file. Little or no user interaction is required.

Security requirements on the host computers prevent you from running applications on startup, and users must be able to see the status easily on the screen. The host computers also have limited memory and monitors that display only two colors. These computers will have no network connectivity. Which type of application should you use for this environment?

A. Windows Store app

B. console-based

C. DirectX

D. Windows Service

Correct Answer: A

QUESTION 13

How does a console-based application differ from a Windows Store app?

A. Windows Store apps do not provide a method for user input

B. Console-based applications do not display a graphical interface.

C. Windows Store apps can access network resources.

D. Console-based applications require the XNA Framework to run.

Correct Answer: B

QUESTION 14

The Dog class and the Cat class inherit from the Animal class. The Animal class includes a breathe() method and a speak() method. If the speak() method is called from an object of type Dog, the result is a bark. If the speak() method is called from an object of type Cat, the result is a meow.

Which term is used to describe this object-oriented concept?

A. multiple inheritance

B. polymorphism

C. data hiding

D. encapsulation

Correct Answer: D

QUESTION 15

What are the three basic states that a Windows service can be in? (Choose three.)

A. halted

B. running

C. stopped

D. paused

E. starting

Correct Answer: BCE