

## Capítulo 3

*This activity contains 24 questions.*

1.

### *Section 3.2 Classes, Objects, Member Functions and Data Members*

*3.2 Q1: All of the following are true about classes, except:*

- ☐ *Classes have attributes and behaviors.*
- ☐ *The first class in any C++ program is main.*
- ☐ *A class's functions hide from the user the complex tasks they perform.*
- ☐ *An object must be created from a class before it can be used.*

2.

### *Section 3.4 Defining a Class with a Member Function*

*3.4 Q1: C++ functions other than main are executed:*

- ☐ *When they are explicitly called by another function.*
- ☐ *Before main executes.*
- ☐ *After main completes execution.*
- ☐ *Never.*

3.

*3.4 Q2: Function headers contain all of the following except:*

- ☐ *Return type.*
- ☐ *Left brace.*
- ☐ *Name of function.*
- ☐ *Parentheses.*

4.

*3.4 Q3: An object creation expression contains:*

- ☐ *All of the above.*
- ☐ *The name of the object.*
- ☐ *Parentheses.*
- ☐ *The name of the class.*

*3.4 Q4: Calling a member function of an object requires which item?*

5.

- ☐ The class name.
- ☐ None of the above.
- ☐ Open and close braces.
- ☐ The dot separator.

6.

3.4 Q5: In the UML, the top compartment of the rectangle modeling a class contains:

- ☐ The class's behaviors.
- ☐ All of the above.
- ☐ The class's attributes.
- ☐ The class's name.

7.

Section 3.5 Declaring a Member Function with a Parameter

3.5 Q1: What is the name of the values the method call passes to the method for the parameters?

- ☐ Values.
- ☐ Objects.
- ☐ References.
- ☐ Arguments.

8.

3.5 Q2: Assuming that `text` is a variable of type `string`, what will be the contents of `text` after the statement `cin >> text;` is executed if the user types "Hello World!" and then presses Enter?

- ☐ Hello
- ☐ H
- ☐ Hello World
- ☐ Hello World!

9.

3.5 Q3: Multiple parameters are separated by what symbol?

- ☐ Parentheses.
- ☐ Braces.
- ☐ Commas.
- ☐ The dot separator.

10.

*Section 3.6 Data Members, set Functions and get Functions**3.6 Q1: Attributes of a class are also known as:*

- ☐ Local variables.
- ☐ Constructors.
- ☐ Classes.
- ☐ Data members.

11.

*3.6 Q2: What is the default initial value of a String?*

- ☐ null
- ☐ "default"
- ☐ default
- ☐ ""

12.

*Software Engineering with Set and Get Functions**3.6 Q3: What type of member functions allow a client of a class to assign values to private data members?*

- ☐ Set member functions.
- ☐ Assign member functions.
- ☐ Client member functions.
- ☐ Access member functions.

13.

*Section 3.7 Initializing Objects with Constructors**3.7 Q1: A default constructor has how many parameters?*

- ☐ 1.
- ☐ 0.
- ☐ 2.
- ☐ Variable.

14.

*3.7 Q2: A constructor can specify the return type:*

- ☐ string.

- ☐ A constructor cannot specify a return type.
- ☐ int.
- ☐ void.

**15.**

3.7 Q3: The compiler will implicitly create a default constructor if:

- ☐ The class does not define any constructors.
- ☐ The class does not contain any data members.
- ☐ The class already defines a default constructor.
- ☐ The programmer specifically requests that the compiler do so.

**16.**

Section 3.8 Placing a Class in a Separate File for Reusability

3.8 Q1: A header file is typically given the filename extension:

- ☐ .hdr.
- ☐ .h.
- ☐ .cpp.
- ☐ .header.

**17.**

3.8 Q2: Assuming that *GradeBook.h* is found in the current directory and the *iostream* header file is found in the C++ Standard Library header file directory, which of the following preprocessor directives will fail to find its desired header file?

- ☐ `#include .`
- ☐ `#include "iostream".`
- ☐ `#include .`
- ☐ `#include "GradeBook.h".`

**18.**

Section 3.9 Separating Interface from Implementation

3.9 Q1: In the source-code file containing a class's member function definitions, each member function definition must be tied to the class definition by preceding the member function name with the class name and `::`, which is known as the:

- ☐ Class implementation connector.
- ☐ Member definition linker.
- ☐ Binary scope resolution operator.
- ☐ Source code resolver.

19.

3.9 Q2: When compiling a class's source code file (which does not contain a main function), the information in the class's header file is used for all of the following, except:

- ☐ Ensuring that each member function knows about the class's data members and other member functions.
- ☐ Determining the correct amount of memory to allocate for each object of the class.
- ☐ All of the above are uses that the compiler has for the header file information.
- ☐ Ensuring that the first line of each member function matches its prototype.

20.

3.9 Q3: When a client code programmer uses a class whose implementation is in a separate file from its interface, that implementation code is merged with the client's code during the:

- ☐ Executing phase.
- ☐ Programming phase.
- ☐ Linking phase.
- ☐ Compiling phase.

21.

Section 3.10 Validating Data with set Functions

3.10 Q1: To execute multiple statements when an if statement's condition is true, enclose those statements in a pair of:

- ☐ Square Brackets, [ ].
- ☐ Angle brackets, < >.
- ☐ Braces, { }.
- ☐ Parentheses, ( ).

22.

3.10 Q2: Assuming that the string object text contains the string "Hello!!!", the expression text.substr( 2 , 5 ) would return a string object containing the string:

- ☐ "llo!".
- ☐ "llo!!".
- ☐ "ello".
- ☐ "ello!".

23.

*Section 3.11 (Optional) Software Engineering Case Study: Identifying the Classes in the ATM Requirement Document*

*3.11 Q1: A solid line representing an association between two classes can be accompanied by any of the following details, except:*

- ☐ *A number near the end of each line indicating multiplicity values.*
- ☐ *A name and direction for the association.*
- ☐ *A role name for one or both of the objects.*
- ☐ *An aggregation relationship with another association line.*

24.

*3.11 Q2: A composition or "has-a" relationship is represented in the UML by:*

- ☐ *Attaching a solid triangle to the association line.*
- ☐ *Attaching a solid diamond to the association line.*
- ☐ *Making the association line dashed*
- ☐ *Making the association line bolded.*

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