TEST BANK

FOR

C++ How to Program

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Chapter 2: Introduction to C++ Programming; Input/Output and Operators

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Section 2.2 First Program in C++: Printing a Line of Text
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2.2 Q1: End-of-line comments that should be ignored by the compiler are denoted using:
a. Two forward slashes (//).
b. Three forward slashes (///).
c. A slash and a star (/*).
d. A slash and two stars (/**).
ANS: a. Two forward slashes (//).
2.2 Q2: Which of the following does not cause a syntax error to be reported by the C++ compiler?
a. Mismatched {}.
b. Missing */ in a comment.
c. Missing; at the end of a statement.
d. Extra blank lines.
ANS: d. Extra blank lines.
2.2 Q3: Which of the following is not a syntax error?
a. std::cout << 'Hello world! ';
b. std::cout << "Hello</pre>
                                world! ";
c. std::cout << "Hello world! ";</pre>
d. std::cout << Hello world!;</pre>
ANS: c. std::cout << "Hello world! ";
2.2 Q4: The escape sequence for a newline is:
a. \n
b. \t
c.\r
d. ∖a
ANS: a. \n
2.2 Q5: Which of the following statements would display the phrase C++ is fun?
a. std::cout << "Thisis fun\rC++ ";
b. std::cout << '++ is fun';
c. std::cout << "\"C++ is fun\"";
d. std::cout << C++ is fun;</pre>
ANS: a. std::cout << "Thisis fun\rC++ ";
Section 2.3 Modifying Our First C++ Program
2.3 Q1: Which of the following is not a valid C++ identifier?
a. my Value
b. AAA1
c. width
ANS: a. my Value (Identifiers may not contain blanks)
2.3 Q2: Which is the output of the following statements?
         std::cout << "Hello ";
std::cout << "World";</pre>
```

```
a. Hello World
b. World Hello
c. Hello
 world
d. World
 Hello
ANS: a. Hello World
2.3 Q3: Which of the following is the escape character?
a. *
b. \
c. \n
d. '
ANS: b. \
2.3 Q4: Which of the following code segments prints a single line containing hello there with the
words separated by a single space?
a. std::cout << "hello ";
std::cout << " there";
b. std::cout << "hello" ,</pre>
                                     " there";
c. std::cout << "hello";</pre>
    std::cout << "there"</pre>
d. std::cout << "hello";</pre>
    std::cout << " there";
ANS: d. std::cout << "hello"; std::cout << " there";
Section 2.4 Another C++ Program: Adding Integers
2.4 Q1: Which of the following is a variable declaration statement?
a. int total;
b. #include <iostream>
c. int main()
d.// first string entered by user
ANS: a. int total;
2.4 Q2: The ______ object enables a program to read data from the user.
a. std::cout.
b. std::cin.
c. std::cread.
d. std::cget.
ANS:b. std::cin.
2.4 Q3: The assignment operator ______ assigns the value of the expression on its right to the
variable on its left.
a. <-
b. ->
c. =
d.#
ANS: c. =.
2.4 Q4: The std::endl stream manipulator_____
a. inputs a newline.
b. flushes the output buffer.
c. outputs a newline and flushes the output buffer.
d. terminates the program.
```

ANS: c. outputs a newline and flushes the output buffer.

```
2.4 Q5: Which of the following uses C++11's list initialization to initialize count to 0?
a. int count = 0;
b. int count[0];
c. int count(0);
d. int count{0};
ANS: d. int count{0};
```

Section 2.5 Memory Concepts

2.5 Q1: Which of the following statements does *not* overwrite a preexisting value stored in a memory location?

```
a. int a;
b. number = 12;
c. y = y + 2;
d. width = length;
ANS: a. int a;

2.5 Q2: Which of the following statements could potentially change the value of number2?
a. std::cin >> number2;
b. sum = number1 + number2;
c. number1 = number2;
d. std::cout << number2;
ANS: a. std::cin >> number2;
```

Section 2.6 Arithmetic

2.6 Q1: What is the value of result after the following C++ statements execute?

```
int a{4};
int b{12};
int c{37};
int d{51};
int result{d % a * c + a % b + a};

a. 119
b. 51
c. 127
d. 59
ANS: a. 119.
```

2.6 Q2: In what order would the following operators be evaluated

```
-, *, /, +, %
```

Assume that if two operations have the same precedence, the one listed first will be evaluated first.

```
a. +, -, /, *, %
b. -, +, %, *, /
c. -, *, %, +, /
d. *, /, %, -, +
ANS: d. *, /, %, -, +
```

2.6 Q3: Which of the following is *not* an arithmetic operator?

a. + b. -

c. =

d. %

ANS: c. =

Section 2.7 Decision Making: Equality and Relational Operators

2.7 Q1: What will be the output after the following C++ statements have been executed?

```
int a{4};
int b{12};
int c{37};
int d{51};
         if (a < b) {
   cout << "a < b" << endl;</pre>
         if (a > b) {
  cout << "a > b" << endl;</pre>
         if (d <= c) {
                       cout << "d <= c" << endl:
         }
         if (c != d) {
   cout << "c != d" << end1;</pre>
a. a < b
    c != d
   a < b
    d \ll c
    c != d
   a > b
    c != d
d. a < b
    c < d
a != b
ANS: a. a < b
           c != d
```

- 2.7 Q2: Which of the following is a compilation error?
- a. Neglecting to declare a local variable in a function before it is used.
- b. Using a triple equals sign instead of a double equals sign in the condition of an if statement.
- c. Omitting the left and right parentheses for the condition of an if statement.
- d. All of the above.

ANS: d. All of the above.

2.7 Q3: Each of the following is a relational or equality operator *except*:

```
a. <=
```

b. = !

c. ==

d. >

ANS: b. =!