

Chapter 5 Test

True/False

Indicate whether the sentence or statement is true or false.

- 1. The **If...Then** statement executes a set of statements when a condition is False.
- 2. A Boolean expression evaluates to True or False.
- 3. The indentation used in an **If...Then...Else** statement has an effect on the execution of the statement.
- 4. An **If...Then...Else** statement that contains another **If...Then** statement is said to be nested.
- 5. A **Select...Case** statement uses the result of an expression to determine which block of code to execute.
- 6. An algorithm is a set of steps that tell how to solve a problem.
- 7. Pseudocode consists of only program code.
- 8. A static variable is declared with the keyword **Dim**.
- 9. In logical expressions, **And** is evaluated before **Not**.
- 10. Operator precedence can be changed by using parentheses.
- 11. Only one check box can be selected at a time.
- 12. A counter variable is a variable storing a number that is incremented by a constant value.
- 13. Using `Rnd()` without including `Randomize()` will produce an error.

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- 14. A roundoff error could occur when
 - a. a comparison is made between floating point numbers.
 - b. an Integer data type is used instead of a Long data type.
 - c. a statement violates the rules of Visual Basic .NET.
 - d. a comparison is made between whole numbers.

Chapter 5 Test (continued)

___ 15. Given the following statements:

```
If intGuess = intSelected Then  
    Me.lblMessage.Text = "Correct"  
Else  
    Me.lblMessage.Text = "Incorrect"  
End If
```

What is displayed when intGuess is 8 and intSelected is 9?

- a. Correct
 - b. Incorrect
 - c. No message would be displayed.
 - d. Correct on one line and Incorrect on the next line
- ___ 16. Which statement should be used to decide among three or more actions?
- a. **If...Then** statement
 - b. **If...Then...Else** statement
 - c. nested **If...Then...Else** statement
 - d. **If...Then...ElseIf** statement
- ___ 17. Given the following statements:

```
Select Case intQuantity  
    Case Is < 10  
        Me.lblMessage.Text = "Quantity is too low."  
    Case Is < 20  
        Me.lblMessage.Text = "Quantity is in the correct range."  
    Case Is >=20  
        Me.lblMessage.Text = "Quantity is too high."  
End Select
```

What message would be displayed if intQuantity is 18?

- a. Quantity is too low.
 - b. Quantity is in the correct range.
 - c. Quantity is too high.
 - d. No message would be displayed.
- ___ 18. The statement **Me**.lblRandNum.Text = Rnd()*100 generates random numbers
- a. less than or equal to 100.
 - b. greater than or equal to 0 and less than 100.
 - c. greater than or equal to 100.
 - d. greater than or equal to 1 and less than or equal to 100.

Chapter 5 Test (continued)

- ____ 19. Which statement generates random numbers in the range from 10 to 50?
- a. `Int(41 * Rnd())`
 - b. `Int(10 * Rnd()) + 50`
 - c. `Int(50 * Rnd()) + 10`
 - d. `Int(41 * Rnd()) + 10`
- ____ 20. Which is not a logical operator?
- a. **And**
 - b. **Or**
 - c. **Not**
 - d. **If**