

**Final Examination**  
**CSCE 204 – Spring 2009**  
**Wednesday, May 6**  
**Time: 2:00 – 4:00**

**NAME:**

**Multiple Choice (2 each):**

1. What are the two primary programming methodologies used today?
  - a. Basic and procedural
  - b. Object-oriented and Basic
  - c. Procedural and Object-oriented
  - d. Cobol and Pascal
  
2. Attributes in Visual Basic are referred to as
  - a. GUIs
  - b. Code
  - c. Events
  - d. Properties
  
3. The CPU only processes instructions written in:
  - a. Machine language
  - b. Notepad
  - c. Microsoft Word
  - d. C++
  
4. What are some GUI elements?
  - a. Objects, actions, code, and performance
  - b. Windows, actions, menus, and hardware
  - c. Windows, dialog boxes, buttons, and menus
  - d. Mice, cables, keyboards, and disks.
  
5. How do you add a control onto a form?
  - a. Drag the control from the toolbox into the form window.
  - b. Place your mouse in the form and type the control name.
  - c. Double click the text property in the Properties Window.
  - d. Click the Common Controls tab in the toolbox window, and then double click on the control icon.

6. What object is used to identify the current form?
  - a. Name
  - b. Display
  - c. Me
  - d. Sub
  
7. You are writing a program to compute carpet size. Instead of multiplying the length by the width, you add the two numbers instead. This is an example of:
  - a. A syntax error
  - b. A run-time error
  - c. A logical error
  - d. All of the above
  
8. What is NOT a definition for a keyword?
  - a. A word that is reserved for a specific task or command.
  - b. A word that is predefined for a specific purpose.
  - c. A user-defined word that identifies a variable.
  - d. A word that has special meaning in a programming language.
  
9. Which of the following is an appropriate control to display a picture?
  - a. TextBox
  - b. Label
  - c. PictureBox
  - d. Form
  
10. Which of the following is an appropriate control for a user to enter his or her name?
  - a. TextBox
  - b. Label
  - c. PictureBox
  - d. Form
  
11. The condition in the following (incomplete) statement: If (condition 1 And condition 2) Then is only true:
  - a. if Condition 1 is True and Condition 2 is False
  - b. if Condition 1 is False and Condition 2 is False
  - c. if Condition 1 is True and Condition 2 is True
  - d. if Condition 1 is False and Condition 2 is True
  
12. An If statement must
  - a. have an Else clause
  - b. have a Then clause
  - c. have an ElseIf clause
  - d. have a logical (Boolean) operator in its condition

13. Relational operators allow you to:
- add numbers
  - compare numbers
  - concatenate strings
  - average numbers
14. This operator reverses the logical value of an expression. It makes a true expression false and a false expression true.
- And
  - Or
  - Xor
  - Not
15. Which of the following describes the part of a program in which a variable may be used :
- Segment
  - Lifetime
  - Scope
  - Module
16. Visual Basic automatically adds this to a list box when it contains more items than can be displayed:
- Larger list box
  - Scroll bar
  - Second box
  - Message box
17. You do this to get the total number of iterations of a nested loop:
- Add the number of iterations of all the loops
  - Multiply the number of iterations of all the loops
  - Average the number of iterations of all the loops
  - Get the number of iterations of the outermost loop
18. What is the process of making user input is valid?
- Syntax validation
  - User validation
  - Input validation
  - Inspection validation
19. What returns a value to the part of the program that called it?
- Call
  - Procedure
  - Function
  - Declaration

20. A Try ... Catch statement is useful for handling:
- Syntax errors
  - Logical errors
  - Runtime errors
  - Hardware errors
21. Which of the following describes the part of a program in which a variable may be used :
- Segment
  - Lifetime
  - Scope
  - Module
22. What type of statement causes a procedure to execute?
- Procedure declaration
  - Access specifier
  - Procedure call
  - Step into
23. A Windows application's default start up object is:
- The first form created
  - A procedure named Main
  - The last form created
  - A procedure named StartUp
24. Procedures and variable declarations used in more than one file should be stored in a:
- Public Module
  - Private Module
  - Standard Module
  - Form Module
25. A program structure that describes an object's properties and methods is a:
- Class
  - Code
  - Variable
  - Form

**True/False (2 each):**

1. You should be very cautious about, and even avoid, placing comments in your code. **True False**
2. You can run an application in the Visual Studio environment by pressing the **F5** key. **True False**
3. You cannot modify a control's Text property with code. **True False**
4. A variable is a name that represents a storage location in the computer's memory. **True False**
5. The tab order is permanent and can not be changed. **True False**
6. What is the value of the following relational expression "cat" < "dog". **True False**
7. An If statement is an example of a conditional statement. **True False**
8. It is possible to write an expression that contains more than one logical (Boolean) operator. **True False**
9. You can assign a constant a new value with an assignment statement. **True False**
- 10.If the CInt function can not convert its argument, it causes a runtime error. **True False**
- 11.Infinite loops keep executing until the program is interrupted. **True False**
- 12.A pretest loop always performs at least one iteration, even if the test expression is false at the start. **True False**
- 13.You can assign a constant a new value with an assignment statement. **True False**
- 14.You can pass more than one argument to a procedure or function. **True False**
15. When a modal form is displayed, no other statements in the procedure will execute until the form is closed or hidden. **True False**

**Short Answer (2 for each question or part of a multipart question):**

1. For each of the following controls, make up an appropriate legal name that conforms to the standard control name conventions described in the text.
  - a. A TextBox control in which the user enters his or her last name.
  - b. A Label control used to display the total of an order.
  - c. A Button control that clears all the input fields on a Form.
2. Declare a variable appropriate for holding the number of backpacks sold this week by an outdoors store.
3. Calculate the total number of party members (`intPartySize`) by adding the number of adults (`intNumAdults`) and the number of children (`intNumChildren`).
4. Write an If statement that multiplies `decPayRate` by 1.5 when `decHours` is greater than 40.

5. Give the value of dblNumber after execution of each of the following (independent) assignment statements:

a.  $\text{dblNumber} = 2 + 4 * (3 + 2)$

b.  $\text{dblNumber} = (2 + 4) * 3 + 2$

6. Explain the difference between an object's Text and its Name.

7. An application contains the function Square (given below). Write a statement that passes value 4 to this function and assigns its return value to a variable called intResult. Assume intResult is already declared.

```
Function Square (ByVal intValue As Integer) As Integer  
    Return intValue ^ 2  
End Function
```