

MgtOp 470—Business Modeling with Spreadsheets
Sample Midterm Exam

Section 1—Multiple Choice

- _____ 1. Spreadsheets are known as the _____ of business analysis.
- A. German motor car
 - B. Mexican jumping bean
 - C. Swiss army knife
 - D. American Sherman tank
 - E. British heat-seeking missile
- _____ 2. To create a *drop-down list* in Excel, what feature do you need to enter?
- A. Form Controls
 - B. What-If Analysis
 - C. Data Validation
 - D. Group
 - E. Consolidate
- _____ 3. In VBA, what cell is referenced from the following statement?
Range("C4").Offset(3,5)
- A. F9
 - B. E8
 - C. H7
 - D. G6
 - E. C5
 - F. E3
- _____ 4. Determine the value of the following expression in Excel:
 $=(-9/3)^2+14-4/2$
- A. 9.5
 - B. 3
 - C. 18
 - D. 45
 - E. 21
- _____ 5. In VBA, which commands directs a **For** loop to iterate by a number potentially different than 1?
- A. Iter
 - B. Step
 - C. Next
 - D. By
 - E. Count

- _____ 6. When the user clicks on the **Cancel** button in a dialog box, what two lines of VBA code should be included in the event handler for that action?
- A. **Delete Form** and **End**
 - B. **Unload Me** and **End**
 - C. **Close Box** and **End**
 - D. **Delete Form** and **Return**
 - E. **Unload Me** and **Return**
 - F. **Close Box** and **Return**
- _____ 7. Consider a string variable *name* that contains an individual's full name in all capital letters. If you wanted to check in VBA to see if the last name was "HARDSON", which of the following would work?
- A. If Right(name, 8) = "HARDSON" Then
 - B. If Mid(name, -7, 7) = "HARDSON" Then
 - C. If Right(name, 7) = "HARDSON" Then
 - D. If Mid(name, Len(name)-7, 7) = "HARDSON" Then
 - E. If Right(name, Len(name)-7) = "HARDSON" Then
- _____ 8. Which of the following is not a valid string function in VBA?
- A. Size
 - B. Mid
 - C. Len
 - D. Left
 - E. Right
- _____ 9. What is the Excel shortcut to display formulas on the screen instead of numbers?
- A. CTRL ^
 - B. CTRL @
 - C. CTRL `
 - D. CTRL #
 - E. CTRL F
 - F. F6
 - G. CTRL /
- _____ 10. If you are recording a macro in Excel and want to copy from one cell to two cells over to the right, what should you do first?
- A. remove all anchoring from the cell
 - B. use the arrow keys to move instead of the mouse
 - C. depress "Use Relative References"
 - D. you can't—this must be done in Visual Basic
 - E. type "Copy 2 Right" in the macro command box

_____ 11. If you want to display an entry from a “List box,” what command should you use?

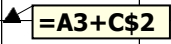
- A. INDEX
- B. DISPLAY
- C. NAME
- D. LISTNAME
- E. CONVERT

_____ 12. Which of the following is not an available message box icon in VBA?

- A. vbCritical
- B. vbInformation
- C. vbExclamation
- D. vbWarning
- E. vbQuestion

Section 2: Short Answer

Consider the Excel Spreadsheet below.

	A	B	C	D	E
1	5				
2	6		6	7	
3	7		4	8	
4			-7		
5					
6	13				
7					

- If cell A6 is copied to cell B7, what number will appear in B7?
- What would result from the formula: **=MAX(B4,C4)**
- How would you write in one formula in Excel a command to display the phrase “Column C” if the sum of the first three rows of Column C exceeds the sum of the first three rows of Column D, and display “Column D” if that is not true?
- What VBA code would retrieve the value from cell A6 and store it in a double variable called “number”?
- What are the commands to divide the spreadsheet into two separate sections on the screen?
- What VBA statement would change the color of the number 8 in column D to yellow?
- What is wrong with the following Excel command?
=IF(D3>5,George,Martha)
- What is wrong with the following VBA Code? (This is unrelated to the spreadsheet above.)
Dim people As Range
people = Range(“B4:H6”)
people.Font.Size = 12

Section 3—VBA Programs

1. Between the SUB and End Sub functions below, complete the VBA code for a SUB called **SquareID** that does the following:
 - (1) Asks the user for his or her name stored in a variable called *yourName*;
 - (2) Asks the user for his or her student ID number (this is an eight-digit number) stored in a variable called *ID*;
 - (3) Calculates the square root of the student's ID number and stores it in a variable called *SID*;
 - (4) Places the square root of the student's ID number into Cell B5 of the worksheet;
 - (5) Displays a message in a message box containing the title "Your Converted Number," as well as an information button. The message should look like this:
"John, the square root of your ID number is 8239.855."

*Hint: The format to display a number without commas and with three decimal places is:
0.000*

Public Sub SquareID()

```
Dim yourName As _____  
Dim ____ As _____  
Dim _____ As _____  
  
yourName = _____  
_____ = InputBox(_____)  
SID = _____  
_____ = SID  
MsgBox _____ ID number is " _  
    & _____
```

End Sub

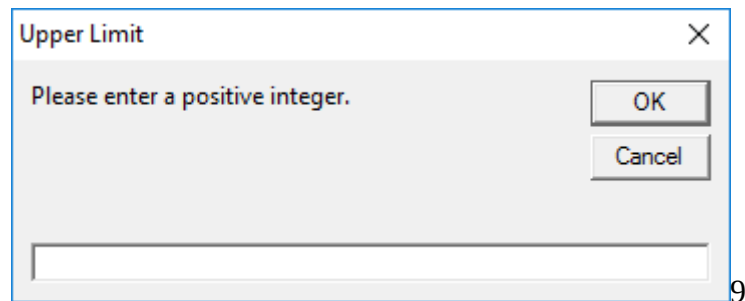
2. Write the VBA code to create a user-defined function called **TWO** that creates a random integer number between 0 and 2 inclusive.

Hint: This can be accomplished with 3 total lines of code.

```
Public _____  
_____  
  
End _____
```

3. Write a sub that does the following:

a) It asks the user to input a positive integer with a box that looks like this:



b) It enters every integer from 0 up through the given number in consecutive columns in row 1, starting with cell A1. For example, if the user entered 5, the program would put a 0 in cell A1, a 1 in cell B1, etc., up through a 5 in cell F1.

Provide your code by filling in the blanks below:

Public Sub NUMBERS()

Dim i As Long

Dim _____

n = _____

With Range("A1")

For i = _____

End _____

End Sub