



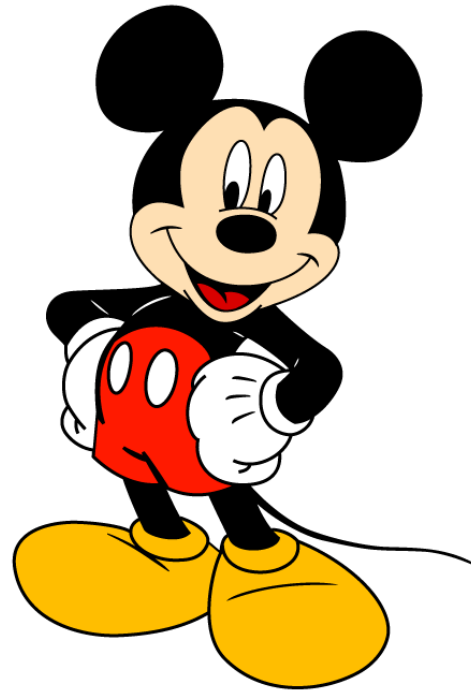
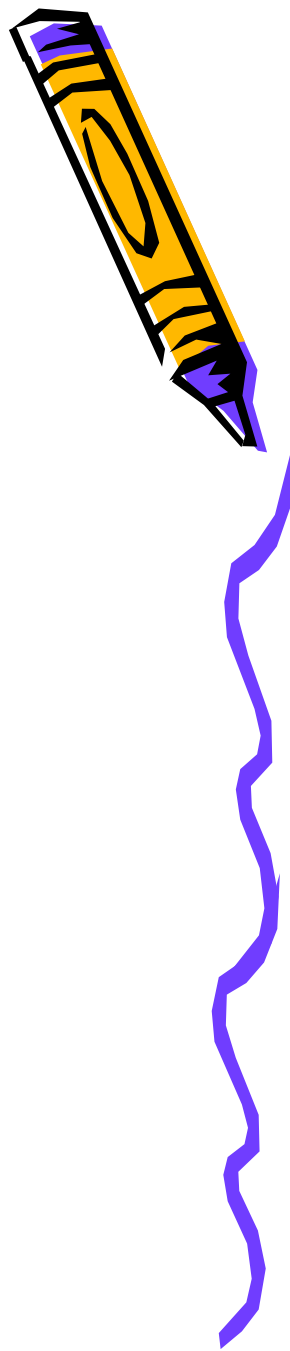
REVIEW FOR MIDTERM

Fall, 2018

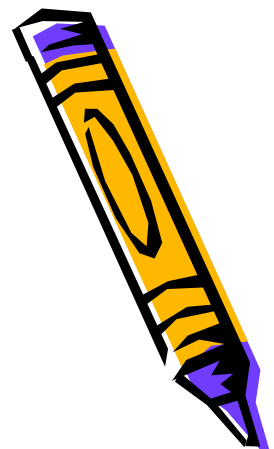
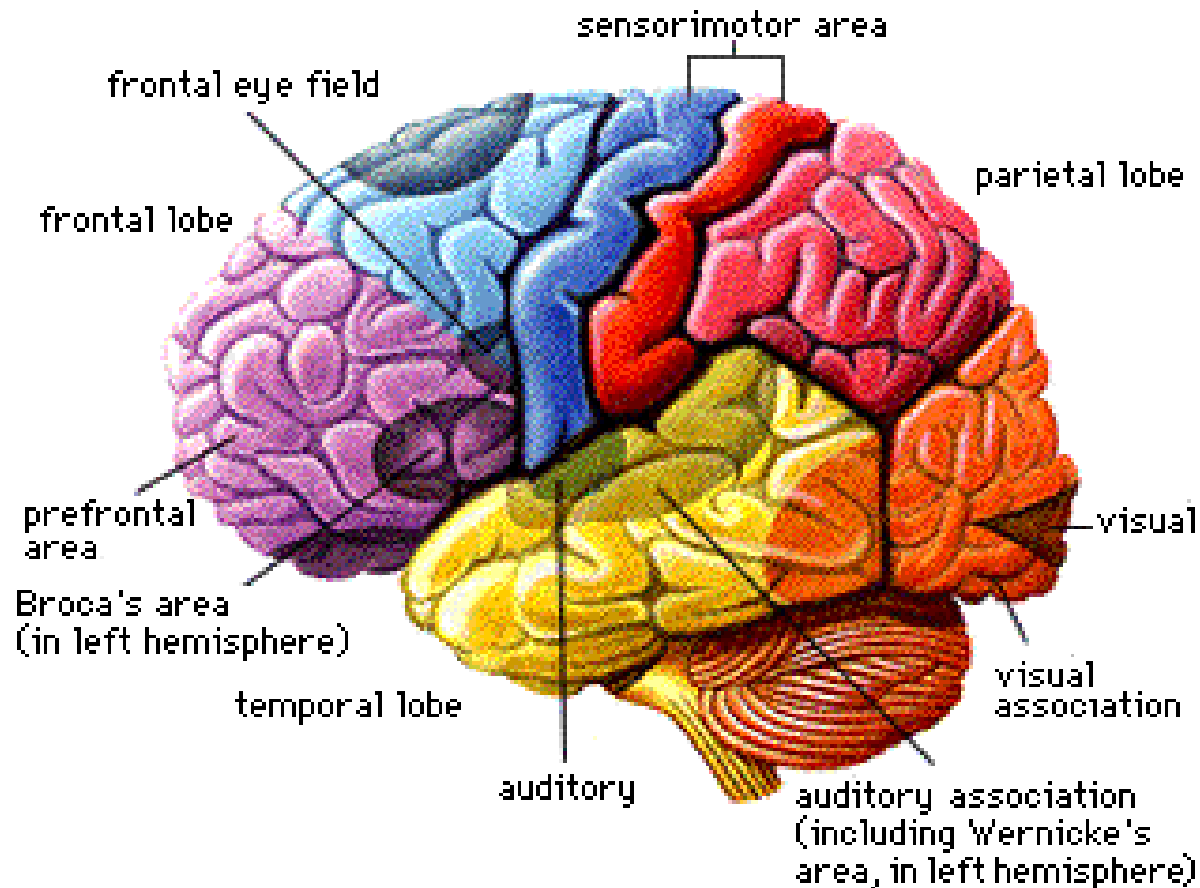


DATE

Friday, October 9th, 2018



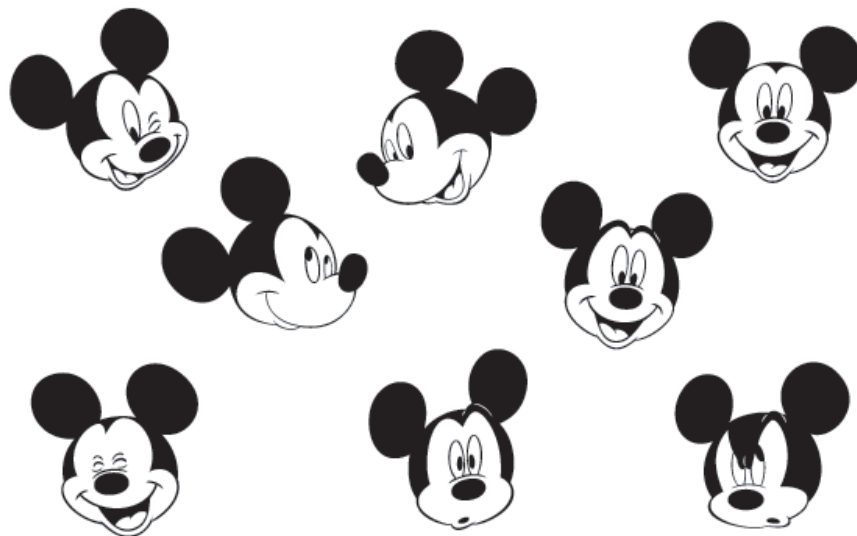
Duration = 50 minutes





Hierarchical Study Guide










- PowerPoints (*very important*)
- Readings from Study Guide (*very important*)

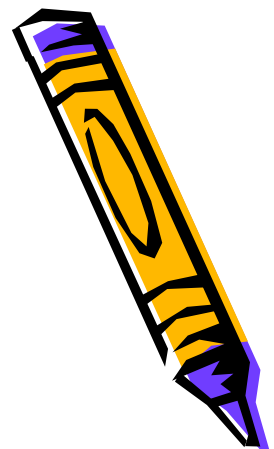
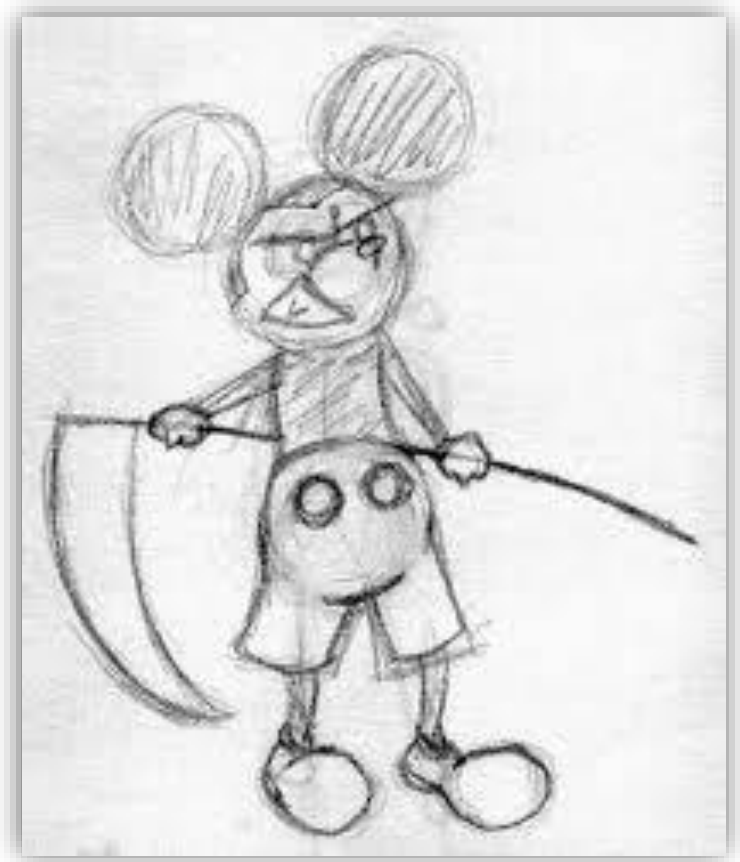


Coverage

- PPTs from 1 to 8.
- First three units of the Study Guide.
- Chapters 2 and 3, Schneider, 10th Ed.



-  0 - Admin-110.pdf
-  1 - Introduction.pdf
-  2 - Algorithms.pdf
-  3R - The High-Speed Electronic Digital C...
-  4 - Object Oriented Introduction.pdf
-  5 - Programming in Visual Basic.pdf
-  6 - VB.pdf
-  7 - Events.pdf
-  8 - Data Types and Operators.pdf



Let's Get Serious

- (1) Visual Basic is considered to be a
A) first-generation language. B) package. C) high-level language. D) machine language.
- (2) Which type of procedure returns a value?
A) Sub Procedure B) Procedure C) Function D) ByVal
- (3) Which of the following is NOT a valid filename in Windows?
A) MYFILE*.TXT B) _MYFILE.TXT C) MYDATA.TXT D) MY-FILE.TXT
- (4) An algorithm is defined as
A) a mathematical formula that solves a problem.
B) a tempo for classical music played in a coda.
C) a logical sequence of a steps that solve a problem.
D) a tool that designs computer programs and draws the user interface.
- (5) Which of the following is the proper order of procedures used in the problem solving process?
A) analysis, design, coding, testing B) analysis, testing, design, coding
C) design, analysis, coding, testing D) analysis, design, testing, coding
E) design, testing, analysis, coding F) design, coding, testing, analysis

Let's Get Serious

(6) Which is not a proper looping structure?

- A) Do While B) Loop Until C) Do Until D) For ... Next

(7) Which one of the following is NOT one of the three basic types of statement structures?

- A) sequence B) loop C) decision D) input/output

(8) What does the diamond flowchart symbol represent?

- A) input/output B) terminal C) decision D) connector E) process

(9) A graphical depiction of the logical steps to carry out a task and show how the steps relate to each other is called a(n)

- A) flowchart. B) pseudocode. C) algorithms. D) hierarchy chart.

(10) What would be a good name for a text box to hold a person's first name?

- A) FirstName B) txtFirstName C) textBoxFirstName D) boxFirstName

Let's Get Serious

(1) Which of the following is the correct statement for specifying the words to appear in the title bar of Form called Form1?

[1 point]

- A) Form1.Text = "My Text" B) Form1.TitleBar = "My Text"
C) Me.Text = "My Text" D) Me.Caption = "My Text"

(2) What will be the content of the variable x after the following statement is executed?

[1 point]

```
x = Math.Sqrt((9 + 7) / (4 * 2) + 2)
```

- A) 1 B) 2 C) 3 D) 4 E) None of the above

(3) What will be displayed when the following lines are executed?

[2 points]

```
Dim x As Double = 3, y As Double = 1  
Dim z As Double  
z = x + (y * x)  
x = y  
z = x + z  
lstBox.Items.Add(x + y + z)
```

- A) 4 B) 9 C) 10 D) None of the above

(4) What will be displayed when the following lines are executed?

[2 points]

```
Dim a, b, c As String  
a = "THE WHOLE"  
b = "PART"  
c = a.Substring(CInt(Math.Sqrt(4)), b.Length)  
txtBox.Text = CStr(c)
```

- A) HE W B) E WH C) THE W D) THE WHOLE PART

Let's Get Serious

(5) What is a valid input if a Masked Text Box has the following mask: "(00) 0&LLL" [1 point]

- A) "(33) 3aaaa" B) "(00) ACDEF" C) "(00) 0&LLL" D) "(83)d9OST"

(6) What is the result of the following code? [1 point]

```
Dim Boy as string = "Jack"  
Dim Girl as string = "Jill"  
txtBox.Text = Boy & " and " & "Girl" & " went up the hill"
```

- A) Nothing, there's an error. B) "Jack and Jill went up the hill"
C) "Jack and Girl went up the hill" D) " and went up the hill"

(7) Which one of the following is NOT one of the three main types of errors? [1 point]

- A) Syntax error B) Logic error C) Declaration error D) Run-time error

(8) What type of numeric variable type holds the most data? [1 point]

- A) Short B) Long C) Integer D) Single E) Double

Let's Get Serious

(1) Simplify the code.

[3 points]

```
If (a < b) Then
    If (b < c) Then
        txtOutput.Text = b & " is between " & a & " and " & c
    End If
End If
```

(2) What will be the output of the following program when the button is clicked?

[6 points]

```
Private Sub btnDisplay_Click(...) Handles btnDisplay.Click
    Dim word1, word2, newWord As String
    word1 = "memory"
    word2 = "feather"
    newWord = word1.Substring(2,2) & word2.Substring(3,4)
    If newWord.Length > 3 Then
        txtBox.Text = newWord
    Else
        txtBox.Text = "Sorry, not found."
    End If
End Sub
```

Let's Get Serious

(1) Simplify the code.

[3 points]

```
If (a < b) Then
    If (b < c) Then
        txtOutput.Text = b & " is between " & a & " and " & c
    End If
End If
```

```
If (a < b) And (b < c) Then
    txtOutput.Text = b & " is between " & a & " and " & c
End If
```

(2) What will be the output of the following program when the button is clicked?

[6 points]

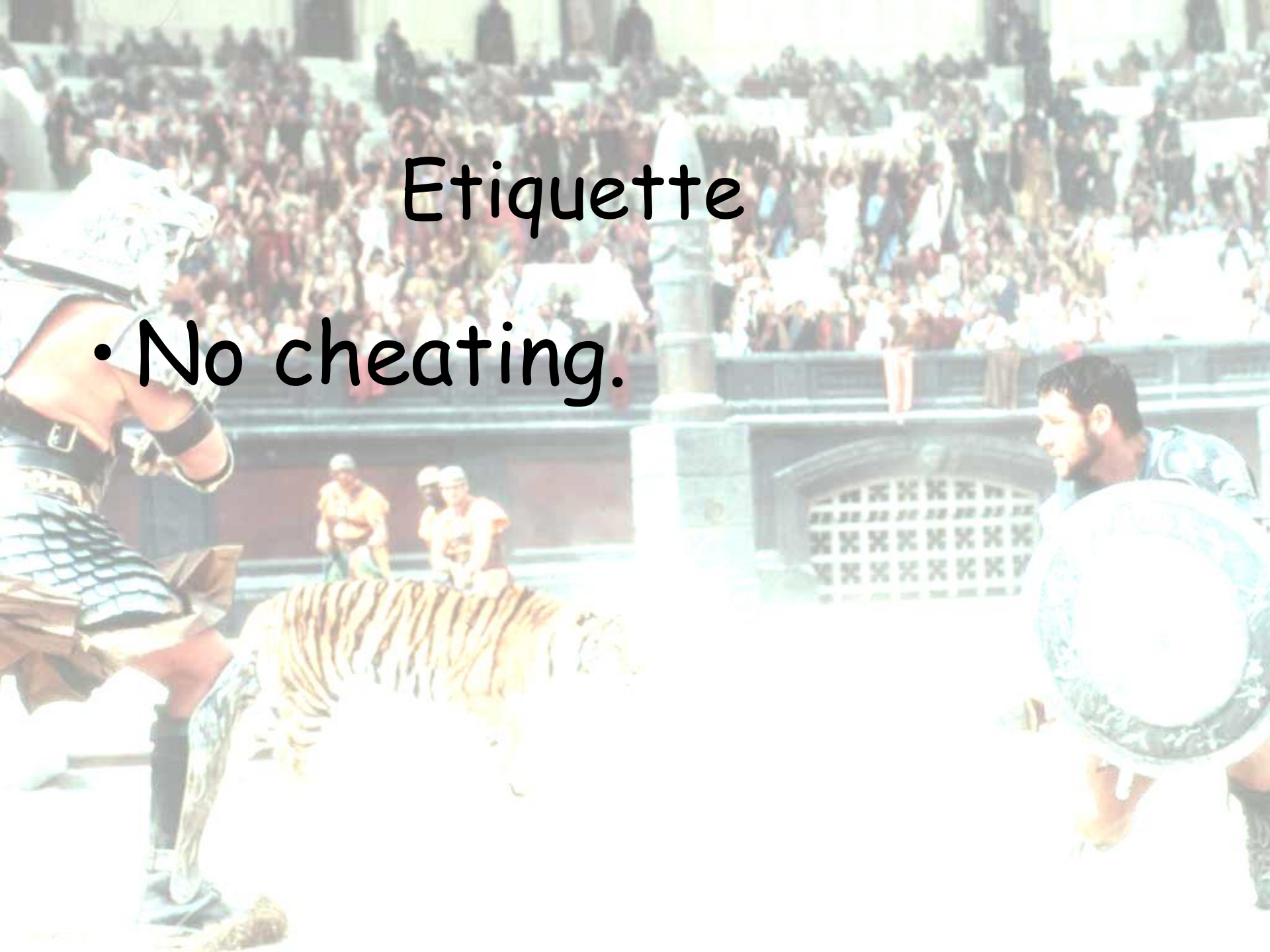
```
Private Sub btnDisplay_Click(...) Handles btnDisplay.Click
    Dim word1, word2, newWord As String
    word1 = "memory"
    word2 = "feather"
    newWord = word1.Substring(2,2) & word2.Substring(3,4)
    If newWord.Length > 3 Then
        txtBox.Text = newWord
    Else
        txtBox.Text = "Sorry, not found."
    End If
End Sub
```

Output:

mother

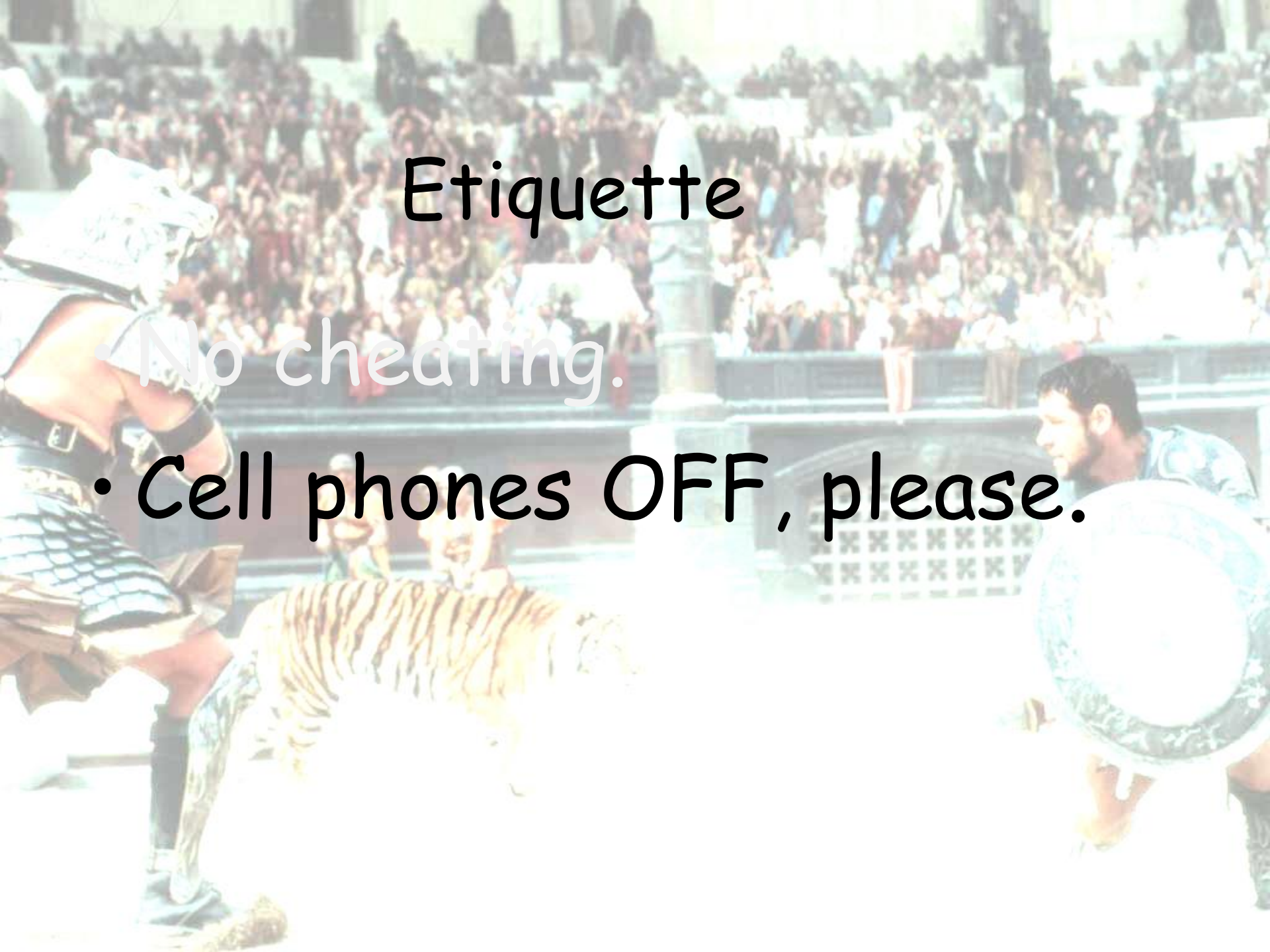
Etiquette

- No cheating.



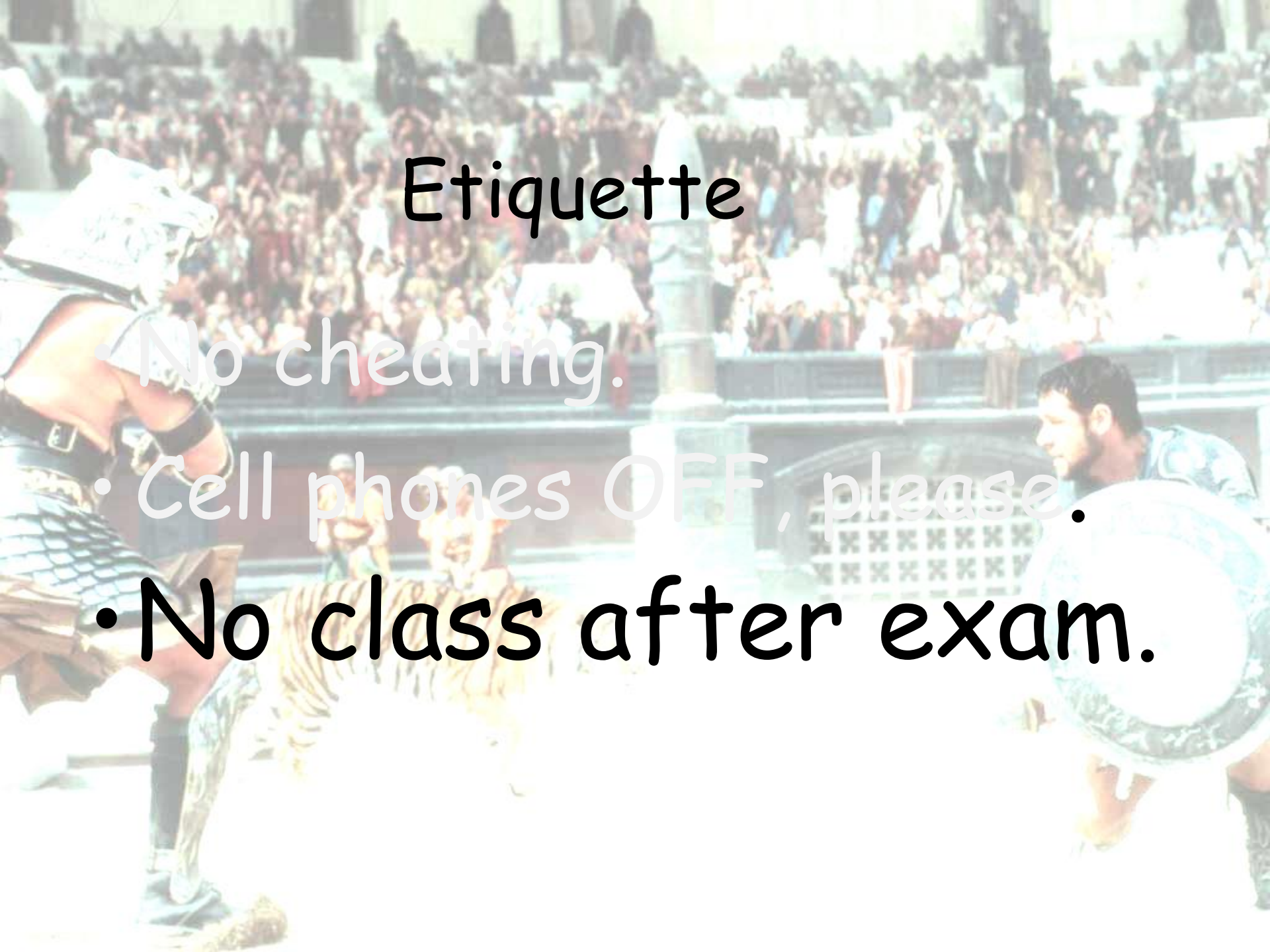
Etiquette

- No cheating.
- Cell phones OFF, please.



Etiquette

- No cheating.
- Cell phones OFF, please.
- No class after exam.





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