

TIK2O Test #2

70 Marks

1.

```
Dim num1 As Integer
Dim num2 As Double
Dim num3 As Double
```

```
num1 = 5 \ 3
num2 = 5 / 3
num3 = 5 \ 3
```

/3

num1 _____

num2 _____

num3 _____

2.

Fill in the values for the following.

10 Mod 3 _____

10 Mod 4 _____

10 Mod 2 _____

10 Mod 5 _____

100 Mod 3 _____

/5

3.

Fill in the values for the following.

```
Dim wrap as String
wrap = Chr( ) & Chr( )
```

/3

4.

Fill in the value for the following.

```
Dim num As Double
num = (6 Mod 5) / (5 \ 2)
```

/2

num = _____

5.

/4

Write the line of code that takes the text contents of a text box called txtToppings and **adds** cheese to any toppings that may already exist in the text box.

6.

An image called vacation.jpg is sitting in a folder called images. The images folder is inside a project folder called Travel which is inside a folder called Visual Basic which is in the c:/ drive.

/8

Declare a string called path and assign it the appropriate value (path to image)
Declare an image called imgVacation and assign it the appropriate value

Write the code that causes the image to be displayed in a picture box called picTravel when a radio button called radTravel is checked.
The Sub for radTravel is given. All code, including declaratons should be written within this Sub.

```
Private Sub radTravel_CheckedChanged(.....)
```

End Sub

7.

- a) A boolean variable must evaluate to either true or false t / f
- b) Another name for modulus division is remainder division. t / f
- c) The symbol for Integer division is `\` t / f
- d) No quarters would be used in dispensing change of \$23.76 t / f
- e) Inserting message boxes into code is useful in tracking variable values. t / f
- f) Long lines of code can be continued on the next line using the underscore. t / f
- g) Radio buttons are useful in cases where multiple items need to be selected. t / f
- h) Combo Boxes can be used to help limit the choices a user can select from. t / f
- i) The border style of a form can be set in the solutions window. t / f
- j) Input Boxes should be assigned to a variable. t / f
- k) Every if statement must eventually end with the code 'End If' t / f
- l) A nested if statement is sometimes called an imbedded if statement. t / f
- m) The not equals operator looks like this `<>` t / f
- n) A `ToUpper()` function can be used to make a password case sensitive. t / f
- o) Code in the `FormLoad` sub will run automatically when the program starts. t / f
- p) The name property of a group box can be used to ask questions in a quiz. t / f
- q) OR statements require both conditions to be true in order to run. t / f
- r) The text of a textbox can be changed using the `PasswordChar` property. t / f

8.

```
Public Class Form1
    Dim gender As String
    Dim age As Integer
    Dim cost As Decimal
```

Fill in the chart below using the given code to calculate the individual ticket prices.

```
Private Sub btnCalculate_Click(ByVal sender As
    If (radFemale.Checked = True) Then
        gender = "f"
    Else
        gender = "m"
    End If
    age = Val(txtAge.Text)

    If (gender = "f") And (age >= 12) Then
        cost = 14 - (14 * 0.25)
    ElseIf (gender = "f") And (age < 12) Then
        cost = 8 - (8 * 0.25)
    ElseIf (gender = "m") And (age >= 12) Then
        cost = 14
    Else
        cost = 8
    End If
    MsgBox("$" & cost)
End Sub
End Class
```

Ticket Cost

11 year old girl	_____
12 year old boy	_____
16 year old girl	_____
Adult male	_____
Adult female	_____
Total cost	_____

/6

9.

Write the code that will charge students 16 and under, and seniors over 64 the price of \$7.50 for a ticket. All others will pay \$10.00.

Input the age of the purchaser using an InputBox, assign the input to an integer variable called age and output the cost to a MsgBox(). Remember to declare your variables first.

```
Private Sub btnCalculate_Click(ByVal sender.....)
```

/10

End Sub

/16

10. Create a password login program using the following criteria.
Declare variables for username and password.
Assign values of "Homer" for the username and "simpson" for the password
Declare variables for usernameAttempt and passwordAttempt.

User enters login to an input box that gives the user the following prompt.

"Please Enter UserName"

Username **IS** case-sensitive

If username is correct, prompt for password in a nested if statement.

Other wise, output in a MsgBox(), "Wrong Username".

Password is not case sensitive so input of password must be handled to reflect this.

- 10/ If password is correct, output "Welcome" in a message box, otherwise output "Correct Username but Wrong Password"

Bonus marks for adding the username in the welcome Message.

Recently a number of celebrities were auditioned to play the starring role in a movie based on the life of Mr. Wright.

Who was the actor chosen for this sensational role.

- a) George Clooney
- b) Shrek
- c) Shrek's Donkey
- d) Other _____