

1) Give the correct representation in visual basic for the following equations:

1. $7\cos(t) + 3\sin^2(t)$.
2. $|289 - y^3 - x^2|$

Ans:

1. `7 * math.cos(t) + 3*(math.sin(t) * math.sin(t)).`
2. `math.abs(289 - (y^3)-(x^2))`

2) What is the result of execution of the following functions:

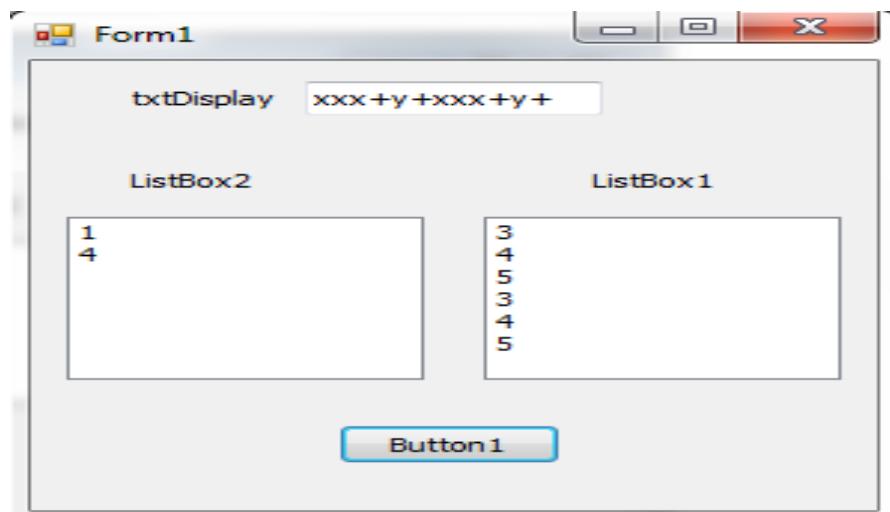
1. `strings.Lcase("COMputer softWARE")`
2. `4 + Math.Truncate(456.467)`
3. `strings.len ("math")`

Ans:

1. computer software.
2. 460.
3. 4.

3) What will be the output in textbox (txtDisplay) after the following statement block execute ? also show the content of listBox1 and listBox2.

```
Private Sub Button1_Click()  
  
Dim i, j As Integer  
txtDisplay.Text = ""  
  
    For i = 1 To 6 Step 3  
  
        For j = 3 To 5  
  
            txtDisplay.Text = txtDisplay.Text & "x"  
            ListBox1.Items.Add(j)  
        Next j  
  
        txtDisplay.Text = txtDisplay.Text & "+" & "y" & "+"  
        ListBox2.Items.Add(i)  
    Next i  
End Sub
```



4) What is the value of *m* after the following code fragment is executed?

```
a = 2
b = 2
c = 4
If (a > b) Then
If (a > c) Then
m = 1
Else
m = 2
End If
Else
If (c <> 0) Then
m = 3
Else
m = 4
End If
End If
```

Ans : m=3 .

5) Select the correct choice for the following statements

1. Assume txtName is a textbox control, which of the following is a valid assignment statement?

- A. txtName = 'Jones'
- B. txtName.Caption = 'Jones'
- C. txtName.Text = "Jones"
- D. txtName.Text = 'Jones'

2. How do we declare a variable?

- A. Using Integer command
- B. Using DIM command
- C. Using A and B command in the Public Class
- D. using private sub

3. Creates a box that can be used to retrieve one piece of information from a user.

- A. MSGBOX
- B. INPUTBOX
- C. Dialog Box
- D. Label

4. The code statement, $27 \leq 15$, will have a resulting condition

- A: no
- B: true
- C: false
- D : none

5. It can contain 0 to 2 billion Unicode characters.

- A. Byte
- B. Char
- C. Single
- D. String

6. When you click the Visible arrow in the Properties window, the following is displayed

- A: Yes, No
- B: True, False
- C: 1,0
- D. Enable, Disable

Ans :

- 1.C.
- 2.B.
- 3.B.
- 4.C.
- 5.D.
- 6.B.

6) What is the result of execution of the following functions:

1. `math.Sqrt(81)`.
2. `math.Pow(3, 5)`.
3. `math.Round(676.37)`
4. `math.max (785, 960)`.
5. `math. min(21, 8)` .
6. `math .abs (5)`.

Ans:

- 1.9
- 2.243
- 3.676
- 4.960
- 5.8
- 6.5

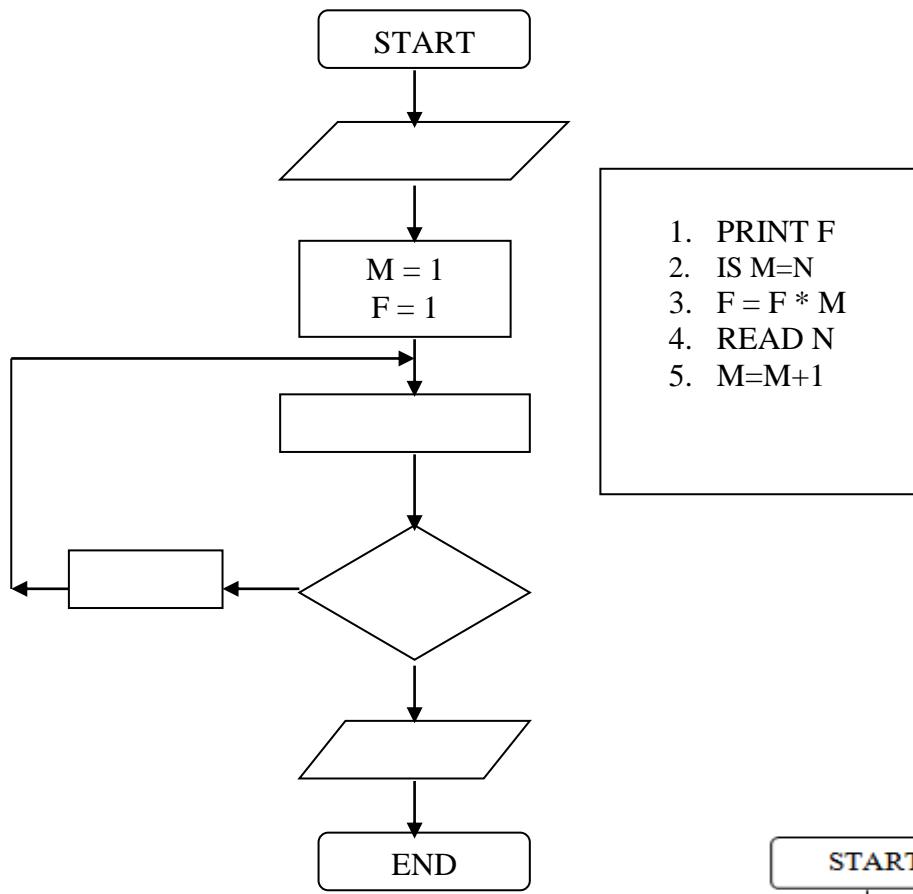
7) Answer by True or False and correct statement :

1. The variable with name (MA&) is valid
2. `MsgBox(Math.Sqrt(49))` will give 7 as result
3. This code is a correct declaration for the message box `msgbox ("Input your grade:")`
4. This code is a correct declaration for variable `(dim x as integer)`
5. To make button visible in your program this code `(button1.visible =true)` is used.

Ans:

1. True
2. True
3. True
4. True
5. True

8) complete the flowchart for computing factorial N Where $N! = 1 \times 2 \times 3 \times \dots \times N$ from the following statement .



Ans:

