

# Sample Tests

## Sample Test ( 1 )

**First :** State whether the following statements are true (T) or false (F):

1. The number of possible branches when using (If ...Then..Else) statement is 2.	( )
2. The operator (&) is one of the logical comparison operators.	( )
3. If the value of variable (X) is 5 and value of variable (Y) is 7, then the result of the conditional expression (X>=5 And Y <=7) is false.	( )
4. You can call the Procedures only once.	( )
5. The Dim statement is used for declaring (Variables).	( )

**Second:** Choose the correct answers

1- If you specify a value of 3500 to the property (Interval) for the control (Timer); it means :

- a) 3.5 minutes      b) 3.5 seconds      c) 35 seconds

2- Which of the following (Select...Case) statements when evaluated ;its result is (False),knowing that the value of the variable being tested is 8.

- a) Case Is >= 4      b) Case 1 To 6, 8      c) Case Is < 8

3- When you know in advance the number of iterations in a loop (a specific number of times) ; so the appropriate loop statement is :

- a) For...Next      b) If... End If      c) Do While...Loop

4- What is the value displayed in the Label control (LblOut) when running the following code.

**Dim i as Integer**

**For i = 2 To 10 Step 2**

**LblOut.Text = lblOut.Text & i & ", "**

**Next**

- a) 2                      b) 2,3,4,5,6,7,8,9,10                      c) 2,4,6,8,10

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5- Assigning values to constants is done:

- When you declare constants only.
- During the the implementation of program's instructions.
- When you declare constants as well as during the implementation of program's instructions .

### Third: Answer the following

1- Specify the value of each variable after executing the following Code.

Variable	Value
C	
K	
N	

```
Dim N, K, C As Integer
C = 10
For N = 1 To 10 Step 5
    K = K + N
Next
If N >= C Then
    C = C + 1
End If
```


2- Write the order of execution of Arithmetic operations that follow:

Order	Operation
( )	<b>Multiplications and divisions from left to right.</b>
( )	<b>Parentheses starting from inside out</b>
( )	<b>Additions and subtractions from left to right</b>
( )	<b>Exponentials.</b>

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3- Explain the following code represented by the numbers as shown below:

```
Dim Total As Decimal  
Dim FirstNumber As Decimal  
Dim SecondNumber As Decimal
```



**1**

```
FirstNumber = 10  
SecondNumber = 20  
Total = FirstNumber + SecondNumber
```



**2**

**1**

 .....

**2**

 .....

# Sample Tests

## Sample Test (2)

**First :** State whether the following statements are true (T) or false (F):

1. Use the (If.Then..Elseif) statement when testing more than one conditional expression	( )
2. Variables of types (Integer & Long & Double) are used to store integers only.	( )
3. The (Or) operator requires that, the result of all conditions must be (False) so that the final result is (False).	( )
4. The (Select Case) statement is used to test more than one conditional expression in one conditional statement.	( )
5. The Variable of type (Double) takes the values True or False	( )

**Second:** Choose the correct answers

1- For the function (AddSum( ) );which of the following statements is not correct when calling this function:

- a)  $X = Y + \text{AddSum}()$       b)  $\text{AddSum}() = X + Y$       c)  $X = \text{AddSum}()$

2- For ending a loop; while the condition: (A = 2 ) is reached , the beginning of the loop will be written as follows :

- a) Do While a = 2    b) Do While (a < 2) Or (a >= 2)    c) Do While a < > 2

3- Select the error in the following Loop statement:

```
Dim J As Byte  
For J=1 to 500 Step 3  
  ListBox1.Items.Add( J )  
Next
```

- a) You must use the **Do. ..While** rather than **For ...Next**  
b) It is an endless loop  
c) Error in variable type in the loop

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- 4- The iteration in the For ..Next statement ( **For m=10 to 1 Step -2** ) stops when the value of the variable M:
- a) Is greater than the end value
  - b) Is smaller than the end value
  - c) Is greater than or smaller than the end value
- 5- Select the result of the following Arithmetic expression:  $2 - 2 * (7 + 2)$
- a) -16
  - b) 14
  - c) 5

### Third: Answer the following

- 1- Rewrite the following code using the (**Select ...Case**) statement

<pre>Dim x As Integer x = Me.textbox1.text If x = 0 Then     label1.text = "القيمة تساوى صفر" End If  If x &gt; 0 Then     Label1.Text = "القيمة أكبر من الصفر" End If  If x &lt; 0 Then     Label1.Text = "القيمة أصغر من الصفر" End If</pre>	<pre>Select Case x  End Select</pre>
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2- Type in front of each statement in column (b), the appropriate number of column (a)

Serial	A	Serial	B
1	Sub Procedure		Is used on the right side of the assignment statement and does not have any value.
2	Function		Is used on the right side of the assignment statement and a value is assigned to it in declaration only
3	Variables		Is never used in the assignment statement
4	Constants		Is used on both sides of the assignment statement

3- Select the type of error in the following Code and then correct as follows

Code	Error type	Correction
Dim x As Sangle		
Const x As Integer X=10		

# Sample Tests

## Sample Test (3)

**First :** State whether the following statements are true (T) or false (F):

1. The property (SelectedIndex).determines the selected item in a (Listbox).	( )
2. The (Select Case) statement is used if there are more than two possible branches.	( )
3. In the If statement (If A>B And B>C..Then ) the result is (True) when (A=3,B=5,C=2).	( )
4. The result of the function (IsNumeric) is always (True) or (False).	( )
5. The Variables of type (Integer & Long) are used to store integers only.	( )

**Second:** Choose the correct answer

A) Choose the correct answer

1. The result of the following Code is :

```
Dim N As Integer  
Dim S As Integer  
For N = 1 to 100  
    S=S +N  
Next  
Label1.Text = S
```

- a) Displaying the numbers from 1 to 100.
- b) Displaying the sum of the numbers from 1 to 100.
- c) Displaying the product of the numbers from 1 to 100.

2. What is the value displayed in (Label1) control; when executing the following code:

```
Dim intNum as Integer = 10  
intNum= intNum+ 2  
intNum = intNum Mod 3  
Label1.Text = intNum
```

- a) 3
- b) 0
- c) 4

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3- For ending a loop; while the condition: (A < > 2 ) is reached , the start of the loop will be written as follows :

- a) Do While a = 2    b) Do While (a < 2) Or (a >= 2)    c) Do While a < > 2

B) Which of the following is a (Sub Procedure ) or a (Function)

```
Function Concatenating(ByVal fn As String, ByVal ln As String) As String
    Dim FulName As String
    FulName = fn + " " + ln
    Return FulName
End Function
```

---

.....

```
Sub ShowResult ()
    MessageBox.Show(2 * (7 + 2) - 2)
End Sub
```

---

.....

## Third: Answer the following questions

1- Specify the value of each variable after executing the following Code.

Bearing in mind that the primary values for the variables are as follows:

x = 0, z = 0, j = 1, k = 1, y = 2

Variable	Value
X	
Y	
Z	

```
If X<Y Then
    Z = K + J
    X = X + 1
    Y = Y - 1
Else
    Z = K - Y
    X = X + 2
    Y = Y - 2
End If
```

2- From the demonstrated code extract the following:

```
Function Area(ByVal radius As Single) As Single
    Const x As Single = 22 / 7
    Dim res As Single
    radius = TextBox1.Text
    res = x * radius ^ 2
    Return res
End Function
```



# Sample Tests

- 1- Procedure Name: .....
- 2- Parameters given to this Procedure: .....
- 3- The return value: .....
- 4- The Data type for:
  - a- A function b- Parameter given to a function c- The return value.....

3- In the following code, determine the cause of the displayed error

```
تخصيم مدخلات المستخدم لكل متغير'  
arabic = TextBox1.Text  
computer = TextBox2.Text  
يخصيم ناتج مجموع المتغيرين'  
Label3.Text = arabic + computer
```

InvalidCastException was unhandled  
Conversion from string "خمسة عشر درجة" to type 'Byte' is not valid.

The cause of errors :

.....  
.....

```
تخصيم مدخلات المستخدم لكل متغير'  
arabic = TextBox1.Text  
computer = TextBox2.Text  
يخصيم ناتج مجموع المتغيرين'  
Label3.Text = arabic + computer
```

OverflowException was unhandled  
Arithmetic operation resulted in an overflow.

The cause of errors :

.....  
.....