First: put a Tick (✓) in front of the correct statement and a cross (✗) in front of the wrong statement for each of the following sentences:

NO.	Question	Answer
1	One of the advantages of VB.NET is dealing with different types of data.	(✓)
2	One of disadvantage of VB.NET is dealing with different types of data.	(✗)
3	All the data entered into the VB.NET program language are stored temporarily in the computer memory.	(✓)
4	All types of data saved in the memory occupy the same storage space.	(✗)
5	A good programmer is the one who improves the rationalization of storage space in the computer memory.	(✓)
6	The value of the student's total grades is classified within the **integer** data types.	(✗)
7	The value of the student's name is classified in the **Miscellaneous** data types.	(✗)
8	The value of the student gender "male" or "female" is classified within the **Miscellaneous** data types "**Boolean**".	(✓)
9	Image of a student can be classified within the character data types.	(✗)
10	The value of the employee's salary can be classified within non-integer numeric data types.	(✓)
11	Each data element stored in computer memory occupies a particular storage space and a particular range of values according to its data type.	(✓)
12	The data element identifies the storage space it occupies in computer memory and knowing the minimum and the maximum for its value.	(✓)
13	The term variables in vb.net means stores in the computer memory, which has type and name.	(✓)
14	Declaring a variable in VB.NET means determining its name and data type.	(✓)
15	The declaration of variables in the language VB.NET helps rationalize the use of the computer memory.	(✓)
16	Declaration of variables is a matter of formality, because VB.NET languages recognize the variables and determine the type automatically.	(✗)
17	The following statement "**Dim F_name As String**" is to declare the name of a variable "String" and type "F_name".	(✗)
18	The following data element "**Dim F_name As String**" is to declare the name of a variable "F_name" and type "String."	(✓)
19	The declaration statement for variables is determined by the variable name and type.	(✓)
20	The declaration statement for the variables is determined by the name, type and fixed value.	(✗)
21	"55City" variable name is a considered a wrong variable name because it begins with a number.	(✗)
22	"55City" is considered a variable correct name.	(✗)
23	"Name" is considered a correct variable name in event procedure level (**enrichment**).	(✗)
24	"Name" is considered a correct variable name in form1class level (**enrichment**).	(✓)
25	"Dim" is used to declare variables.	(✓)
26	"Dim" is used to declare constants.	(✗)
27	The command "**Const**" is used in the declaration of the variables.	(✗)
28	The command "**Const**" is used in the declaration of the constants.	(✓)

NO.	Question	Answer
29	Constants in VB.NET language are stores of a computer memory which have the name and the value that does not change during the running of the program.	(✓)
30	Constants in VB.NET language are stores of a computer memory which have name and value can change during the running of the program.	(X)
31	The error in the result of any equation is a Syntax Error.	(X)
32	The error in the result of any equation is a Logical Error.	(✓)
33	Error that appears while you run or execute a VB.NET program is called Syntax Error.	(X)
34	Error that appears during the execution of VB.NET program is Run time Error.	(✓)
35	The final value of the variable X after the execution the following equation "X = 3 + 2 * 4" is (11).	(✓)
36	The final value of the variable X after execution the following equation "X = 3 + 2 * 4" is (20).	(X)

Second: Select the appropriate answer to complete each of the following sentences:

(1) The value of prices of desktop tools can be classified as……….. data.
        a) integer   b) non- integer   c) miscellaneous

(2) The value of the names of the subjects can be classified as ……… data.
        a) miscellaneous   b) non- integer   c) string

(3) The type of data element temporarily stored in the computer memory defines:
        a) storage space and the extent of its value
        b) Name and storage space
        c) Storage space and a storage value

(4) The right syntax to declare Salary variable is …………
    a) Dim Salary As Integer **b)** Dim Salary As Byte c) Dim Salary As Decimal

(5) The right syntax to declare the city variable is ……….
    a) Dim City As String **b)** Dim City As Byte   c)Dim City As Decimal

(6) The right syntax to declare the variable name F_Name is …………
    a) Dim F_Name As Integer b)Dim F_Name As String c)Dim F_Name As Decimal

(7) The right syntax to declare the variable Gender is ……….
    a) Dim Gender As Decimal b)Dim Gender As Integer c) Dim Gender As Boolean

(8) The right syntax to declare the variable name F_Name is …….
    a) Din F_Name As String b)Dim F_Name As String   c) Dim F_Name As Char

(9) The error that appears after running a program VB.NET language is called …….
    a) Syntax Error   b) logical Error   c) Runtime Error

(10) The error that appears while writing a code in a VB.NET language called………
    a) Syntax Error b)Logical Error c)Run time Error

(11) The error in the output result in language VB.NET code is called……….
    a) Syntax Error   b)Logical Error   c)Run time Error

(12) The final output of the variable X for equation "X = 3 + 2 * 4" is …….. .
    a) 11   b) 24   c) 20

(13) The final output of the variable Y for the equation "Y = 16 - 12/4 + 2" is …… .
    a) 3   b)11   c)15

(14) The declaration statement of a variable "Dim X As String", means the declaration about ....
   a) A variable named X and type of character String.
   b) Variable called string and its type X.
   c) Unknown variable has no name and its type String.

(15) The correct statement to declare a non-integer variable named Y is ....
   a) Dim Y As Decimal   b)Y As Decimal   c)Dim Y = Decimal

(16) Choose the correct name of the variable "name of the student":
   a) st_name   b) st name   c)Name**

(17) Choose the correct name of the variable "address of the employee":
   a) 5Cairo   b)E_Address   c) (Address)

(18) The names of the following variables are correct in level of class form1 except: (enrichment)

   a) St_text   b)Text   c) st_text

(19) On declaration of a mathematical constant π , we use the code ....
   a) Dim Pi As Single   b)Dim Pi As Single = 3.14   c)Const Pi As Single = 3.14

(20) On the declaration of constant gravity acceleration, we use the code ....
   a) Dim g As Single   b)Const g As Single = 9.81   c)Dim g As Single = 9.81

(21) The declaration of variable number of family members C_Family with initial value of 2 is:
   a) Dim C_Family As Single = 2
   b) Const C_Family As Integer = 2
   c) Dim C_Family As Integer = 2

(22) If there is an error in the result of a rectangular area calculation in a program, this error is considered ..... .
   a) Syntax Error   b) Logical Error   c) Run time Error

(23) The error message that appears when you write the code "Dimension X As Byte", can be classified as ....
   a) Syntax Error   b) Logical Error   c) Run time Error

(24) The final output of the equation " Y = 12 − 2 + 4 / 2 " is ....
   a) 12   b) 7   c) 9

(25) The final output of the equation " Y = 12 − (2 + 4) / 2 " is ....
   a) 12   b) 7   c) 9

12 − 6 / 2
12 − 3 = 9

Questions

(1) Answer the questions with the help of the following code:

```
If X >= 50 Then
        MsgBox("successful ")
    End if
```

A- MessageBox is shown with the text "successful" when :
...... X >= 50 ......

B- If the value of X equals 50, the result of executing code is......
...... MsgBox ("Successful"

C. If the value of X equals 62, the result of executing code is ......
...... Msg-Box ("Successful")

(2) Answer the following questions using the following code line:

If x<0 Then msgbox (العدد موجب) else msgbox (العدد سالب)

A- Write the conditional expression in the preceding statement:
...... If X < 0 ......

B- The code to be executed when the condition is true is:
...... Msg box (موجب) ......

C- The code to be executed when the condition is false is:
...... Msg box (سالب) ......

(3) Answer the following questions with the help of the screen and the code in the table:"

Code	screen

`Private Sub Button1_Click`
 	
`Dim x As Single`
`x = Me.TextBox1.Text`
`If x >= 50 Then`
`MsgBox ("ناجح")`
`End If`
 	
`End Sub`
	ادخل الدرجه
	
	نتيجه

A-The purpose of the program is: ...Show Student Status if Succeed
B- The code is executed if the event ..Click.. occurred on .Button1. control tool.
C-Type of variable X in the code is......Single.....:
D- "Me." In the code refers to...Current Form
E- We input the value (50) in the text box, the result of the implementation of the code is :
......MsgBox ("ناجح")

(4) Complete the following table with the required code, using the general syntax conditional statement "IF .. Then .. Else"

If Conditional Expression Then
Code

Else	
Code	
End if	

So as to show a message box having the word "مصر" if the value of the variable "Country" is equal to the "Egypt" or message box having the word "Egypt" appears:

No	statement	code
1	Conditional expression	....If.Cuntry.=....."mes."....
2	Result of achieving the condition "True"	.......M.sg.Box.(.!...er.!)....
3	Result of not achieving the condition "False"	.......M.Sg.Box("Egypt"....

(5) Answer the following questions with the help of the code:

A. If the value of X = 76, the result of executing the code is:
.........Msg.Box ("مصر ")

B. If the value of X = 49, the result of executing Code is :
.........Msg.Box ("مصر")

C. Rewrite the code of "Block If" to appear on only one line.
If.X>=50.Then Msg Box ("مصر") Else Msg Box("مصر")

```
Dim x As Single

x = Me.TextBox1.Text

If x >= 50 Then

    MsgBox("مصر")

Else

    MsgBox("مصر")

End If
```

(6) After studying the code, answer the following questions:

A- Modify the code so that the "الرقم زوجى" text appears in a label "Label2" and "الرقم فردى" text appears in a label " Label2" instead of the message box.
labl2. Text,='الرقم زوجى'
labl2.Text='الرقم فردى'
Dim N As Integer

B- Replace the type of variable "N" to be "Integer"

```
Dim N As Long

N = Me.TextBox1.Text

If N Mod 2 = 0 Then

    MsgBox("الرقم زوجى")

Else

    MsgBox("الرقم فردى")

End If
```

(7) The following code receives any number of a TextBox, and stores it in a variable, and then tests its value. If the number is even or odd, a Messagebox appears showing that.

Required: Retype the code after discovering the errors and correcting them so that the result of its implementation is right.

```
Dim X As Integer

N = Me.TextBox1.Text
```

30

Dim N As Integer
In N Mod 2 = 0 Then
End If

If N Mod 2 = 0

MsgBox ("الرقم زوجي")

Else

MsgBox ("الرقم فردي")

(8) After studying the following code, answer the following questions:

```
Private Sub Button1_Click(ByVal sender As Syste
    Dim degree As Single
    Try
        degree = Me.TextBox1.Text
        Select Case degree
            Case 0
                Me.Label2.Text = "صفر"
            Case Is < 0
                Me.Label2.Text = "تحت الصفر"
            Case Is > 0
                Me.Label2.Text = "فوق الصفر"
        End Select
    Catch ex As Exception
        MsgBox ("ادخل عدد")
        Me.TextBox1.Focus()
        Me.TextBox1.Text = ""
    End Try

End Sub
```

Using Try......Catch in code is enrichment – ask your teacher

(A)The purpose of the code is ...S.h.o.W...temprature...degree

(B) If you learn that: " Degree = -3" the text appears in the message box is :

.........Case...IS > 0

(C) The code is executed when the event...Click... occurs on control tool.. ....

(D) Type of variable "Degree" :is.......Single