

Question 03: (A): Correct the following code:

1. To adjust the property (ForeColor) of control tool Label1 to the value Red.  
`ForeColor.Label1 = Red` Label1.ForeColor = Color.Red

2. To adjust the property (Font) of control tool Rd\_Title to the Font type "Arial" and size 10.  
`Rd_Title.Font = New Font ("Arial", 10)` Rd\_Title.Font = New Font ("Arial", 10)

(B): Correct the following statements: Start

1. The effect of the property WindowState does not appear until we (Stop) Debugging.  
BackColor

2. To adjust the background color of the Form use property (ForeColor).

(GOOD LUCK)

12

1.

**Question (1): Put ✓ for t & ✗ for f.**

- Radiobutton is used to allow user to choose more than one alternative.
- Any geometric shape can be used to represent the solution steps in flowcharts.
- On saving the Project for the first time, solution name is identical to project name.
- Object name in IDE, TitleVisible = True is Visible.
- There are common properties between control tools and others.
- Rectangle symbol represents only one operation process.

**(B) Write the scientific term for the following sentences:**

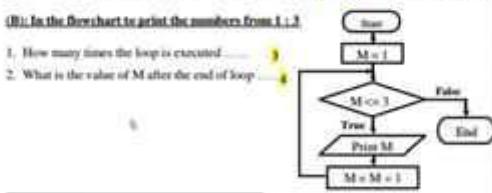
- A graphical representation that is based on standard graphic symbols. [ ... Flow chart ... ]
- Through which commands and instructions (code) are written in Visual Basic, Net language [ ... Code window ... ]

**Question (2): (A): Underline the correct answer from between brackets! Answer six words**

- \_\_\_\_\_ is a set of procedures logically arranged and executed to reach a specific goal or result from specific data. (Problem - Problem solving - **Algorithm**)
- \_\_\_\_\_ is the basic construction unit in object oriented programming languages. (Class - **Object** - Label)
- The Frame Work consists of \_\_\_\_\_ and other elements. (Toolbox - IDE - **Components**)
- The name that refers to the Form in the code \_\_\_\_\_ (BackColor - **Name** - Text)
- \_\_\_\_\_ allows TextBox control tool to have multiple lines. (MultiLine - Star - Font)
- Project can run in test mode by pressing a key \_\_\_\_\_ from the keyboard. (F5 - F1 - F2)
- \_\_\_\_\_ is used in displaying of a list of items. (Listbox - CheckBox - Groupbox)

**(B): In the flowchart to print the numbers from 1..3.**

- How many times the loop is executed \_\_\_\_\_
- What is the value of M after the end of loop \_\_\_\_\_



11

**Question (1): Put ✓ for t & ✗ for f.**

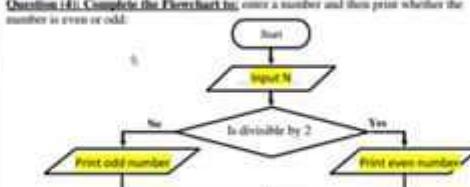
- Event handler is the procedure that is called when a certain event occurs.
- Debugging mode is turned off using icon Stop Debugging.
- Properties vary according to the active element in the IDE screen.
- Algorithm is the first stages of problem solving.
- There are no common properties between one Control tool and another.
- Iterations and branching can be represented through Flowchart.

**Question (2): Choose the correct answer from the brackets for the following:**

- To open the code window of the Form window press the key \_\_\_\_\_ (F4 - **F7** - F5)
- \_\_\_\_\_ contains control tools that can be placed on the form window. (**Toolbox** - Properties - Solution explorer)
- To allow the choosing one only element, we use the control tool \_\_\_\_\_ (**RadioButton** - Checkbox - Groupbox)
- Which of the following properties takes effect only upon Start Debugging. (**Show in taskbar** - Form - text)
- Integrated development environment means \_\_\_\_\_ (EKO - **IDE** - IPO)
- To set the background color of the Form window use property \_\_\_\_\_ (BackColor - **Color** - Color)

**Question (3): Complete the following sentences:**

- An objective or output result we want to attain **the problem**.
- When saving the Project for the first time, solution name is identical to **project name**.
- When the value of property AutoSize is set to **True** the size of control tool Label is set according to the text appearing on it.
- Object** is defined as the basic building unit in object orientation programming languages and is created from class.

**Question (4): Complete the Flowchart to enter a number and then print whether the number is even or odd.**

10

(13) ISMADALEA GOVERNMENT COLLEGE - 2018 - 2019

**Question 13:** Put V. True & F. False

- Preparing the solution steps (algorithm) is the first stage of problem solving. (V)
- There are common properties among the control tools. (F)
- The code written to hide the control tool Label1 is Label1.Visible = true. (F)
- Number of variables used in flowchart to input two numbers and print the sum is 2. (V)

**Question 14:** Choose the correct answer between brackets.

- Object that upon which controls are placed the (Control(s) and is used as program interface is called ..... (Form - Application - Visual Basic) (Form - Application - Windows)
- Object name can be changed from the ..... window (Properties - Tools - Form) (Form - File - Properties) (Form - File - Tools)
- The code window is opened by pressing the key (F9 - F4 - F12) (F9 - F4 - F12)
- To save project in Visual Basic.NET Select command (Save As - Save) from the File menu (Save As - Save As - Save)
- The blueprint from which object is created is called ..... (Class - Label1 - Form) (Class - Form - Label1)

**Question 15:** Complete the Flow Chart to enter the value of X, and if  $X \geq 50$  print the word "Success" and if it is less than 50 print "Fail".

```

graph TD
    Start([Start]) --> InputX[/Input X/]
    InputX --> Decision{X>=50}
    Decision -- Yes --> PrintSuccess[/Print Success/]
    Decision -- No --> PrintFail[/Print Fail/]
    PrintSuccess --> End([End])
    PrintFail --> End
  
```

**Question 16:** Select from column (A) what suits it from column (B):

(A)	(B)
1. The procedure, which is called upon the occurrence of a certain event.	(3) a. Radio Button
2. The property that changes the color of text written on the tool.	(1) b. Event Handler
3. The tool used to select only one alternative of several alternatives.	(4) c. Text
4. The property that changes the text written on the tool.	(5) d. ShowInTaskbar
5. The property that takes effect on start debugging.	(2) e. ForeColor

(GOOD LUCK)

**Question 14:** (A): In the shown figure write down what the following number indicates:

- Properties Window
- Form Window
- Tool Box

**(B):** Write the scientific term for the following:

- Property that sets the height and width Buttons tool on the form window. (Size)
- A tool used to contain the control tools of the same function on the Form window. (Group Box)

(GOOD LUCK)

(14) GIZA GOVERNORATE 2014 - 2015

**Question (1): Put (✓) or (✗) (Answer 5 only)**

- Property Sorted determines whether the items are sorted or not.
- You cannot create more than one Object from the same Class.
- Commands and instructions can be written through the properties window.
- The last step of problem solving is to test the program.
- To add a new Form to the project select "Add Class" from the Project menu.
- The default value of the property Text and property Name is the same.

**Question (2): Complete the following sentences using the following words**

(Event name – Object Oriented – Flowchart – Maxlength – RadioButton)

- After the finishing the **Flowchart** we translate it into one of the programming languages.
- Control tool **RadioButton** is used if we want to select only one alternative from several alternatives.
- The event handler name consists of the name of the control tool and **Event name**.
- Property **Maxlength** determine the maximum number of characters that can be written within the TextBox.
- Visual Basic.net language is an **Object Oriented** language.

**Question (3): Write the reference number of each command in the following table. To determine its correct place in the flowchart for calculate the area of the rectangle with Knowledge of length L, width W (knowing that the account is the space equation: Area = L \* W).**

Area = L * W	<input checked="" type="checkbox"/>
End	<input checked="" type="checkbox"/>
Input L , W	<input checked="" type="checkbox"/>
Start	<input checked="" type="checkbox"/>
Output Area	<input checked="" type="checkbox"/>

(15) AL-BERAMIA GOVERNORATE 2014 - 2015

**Question (1): Put (✓) or (✗) (Answer 5 only)**

- More than one object can be created from the same class.
- Property **ForeColor** is the color of the background of button (Button).
- The event handler is the procedure that is called when a certain event occurs.
- The Blueprint from which object is created is called **Class**.
- The value of property **Size 98,108** means that the width of control tool is 108 and height is 98.

**Question (2): Complete the following:**

- Form is **the window visible interface**.
- One stage of the problem solving: **define the problem** it means defining required outputs and available inputs and mathematical or logical operations.
- The property **Control Box** controls the appearance or hide the Control Box of the Form window.
- TextBox** tool is used to receive user text inputs.
- Flowchart** is a graphical representation using standard symbols to illustrate the sequence of the operations necessary to solve a specific problem.

**Question (3): Choose the correct answer from between brackets:**

- Which of the following symbols expresses decision making processes in the flow chart  
( -  -  - )
- The property **RightToLeftLayout** is activated only if the value of the property **RightToLeft** is \_\_\_\_\_ (False - Yes - True)
- To add a new Form window to the project is from the \_\_\_\_\_ menu. (File - View - **Project**)
- The effect of \_\_\_\_\_ property does not takes place only at Start Debugging (Text - **WriteBox** - BackColor)

**Question (4): Answer the following questions:**

A) You have several properties of control tool (TextBox), change them programmatically to the values shown:

Property	Required value	Code
MultiLine	True	TextBox.MultiLine = True
Font	Font type Arial of size 20	TextBox.Font = New Font ("Arial", 20)
BackColor	yellow	TextBox.BackColor = Color.Yellow

B) Draw a flowchart for calculating the number of years knowing number of months.

AL SHARQIA GOVERNORATE 2014 – 2015

**Question (1): First: Choose the correct answer between brackets:**

1. \_\_\_\_\_ is used to contain control tools of the same function on the Form window. (Class – **GroupBox** – **ListBox** – **Image**)
2. Solution Explorer window contains \_\_\_\_\_ (Properties – Control tools – **Project** – all of the previous)
3. The event handler name consists of \_\_\_\_\_ (Control tool Name – The event name – **Dot control tool name and the event name** – note of the previous)
4. Integrated Development Environment means \_\_\_\_\_ (IDE – IPI – **IDE** – EID)

**Second: Put the appropriate tool name from the following tools in the right place in the table:**

(TextBox – RadioButton – CheckBox – ComboBox – ListBox – Label)

Image	<input type="checkbox"/> English		<input type="checkbox"/> <b>Select Arabic</b>	<input checked="" type="checkbox"/> Male
	<input type="checkbox"/> French		<input type="checkbox"/> Gender	<input type="checkbox"/> Female
Tool name	(1) <b>CheckBox</b>	(2) <b>TextBox</b>	(3) <b>ComboBox</b>	(4) <b>RadioButton</b>

**Question (2): First: Rewrite the following sentences after correcting the underlined:**

1. To open the code window Code Windows of the Form window press F5 key. **Open the windows** **F5**
2. Program design is the first stages of solving the problem. **Solve the problem** **Design**
3. Property **Text** indicates whether the RadioButton is selected or not. **Clicked** **Text**
4. The Blueprint from which objects are created from is called **Form**. **Code**

**Second: You have some properties of the control tool **Label**:**

Change it programmatically to the values shown:

Property	Required Value	Code
ForeColor	<b>Blue</b>	<b>Label1.ForeColor = Color.Blue</b>
Text	Egypt	<b>Label1.Text = "Egypt"</b>

**Question (3): Write inside each symbol of Flowchart what suits it from the opposite table: To determine whether the number entered is even or odd:**

```

graph TD
    Start([Start]) --> Input1[/1/]
    Input1 --> Decision{3}
    Decision -- Yes --> OutputEven[/Output "number is even"/]
    OutputEven --> End([End])
    Decision -- No --> OutputOdd[/Output "number is odd"/]
    OutputOdd --> End

```

(4) AL SHARQIA GOVERNORATE 2014 – 2015

**First Question: Put the following steps in order:**

1. Testing program and correcting errors is the fourth step of problem solving. **Correcting errors** **4**
2. VB.NET language is not object oriented programming language. **VB.NET** **2**
3. Windows application has a graphical user interface (GUI). **GUI** **3**
4. Each object has properties and events and methods. **Properties and events** **1**
5. To hide the control box of the Form select the value True for the property **ComSizeMode**. **ComSizeMode** **5**

**Second Question: You have understand steps of program to calculate the interest value calculated for the balance (at specified interest rate):**

**Required:** Interest = Balance \* Rate **3**  
**First:** Rearrange the previous steps. **End** **5**  
**Second:** Draw flow chart for this program. **Read Name, Balance, Rate** **2**  
**Output Name, Balance, Interest** **4**  
**START** **1**

```

graph TD
    START([START]) --> Read[/Read Name, Balance, Rate/]
    Read --> Process[Interest = Balance * Rate]
    Process --> Output[/Output Name, Balance, Interest/]
    Output --> End([End])

```

**Third Question: Write down each of the following:**

1. The components of the Framework. **C# – System Class Library – Compiler – other tools**
2. IDE screen components. **Form – Properties – Solution Explorer – Tool Bars**
3. How to save the project on the storage media. **Open File menu and choose Save All**

**Fourth Question: Choose the correct answer between brackets in the following:**

1. The procedure, which is called when a certain event occurs ..... (Code Window – **Event Handler** – **CheckBox**)
2. A control tools that can be placed on the form window and the user program can click on it to execute a certain action ..... (**ComboBox** – **Button** – **ListBox**)
3. To control the size of Label control tool using the mouse, set the property **AutoSize** – Location – BorderStyle)
4. The tool used to input text data to the program ..... (**RadioButton** – **GroupBox** – **TextBox**)
5. The plan from which objects are created from ..... (Object – **Class** – Flow Chart) **GOOD LUCK**

(1) ALEXANDRIA GOVERNORATE 2014 – 2015

**Question (1): A) Write the scientific concept:**

1. A window that is used to view and change the properties of controls. **Properties window**
2. A group of logically arranged procedures to be executed to attain a goal or precise output, out of specific inputs. **Algorithm**
3. The procedure that is called when an event occurs. **Event handler**

**B) Mention the events:**

1. Any Programming language contains a computer.
2. When the user was trying to input the number (2015) into the textbox tool, these symbols (\*\*\*\*\*) displayed instead. **because user inputs PasswordChar**

**Question (2): A) Fill the empty shapes of the flow chart with suitable:**

- Is N>20
- N = 1
- S=S+N
- S = 0

**B) The purpose of the flow chart is:**

Print the sum of odd numbers from 1 To 20

```

graph TD
    Start([Start]) --> N1[N=1]
    N1 --> S0[S=0]
    S0 --> SplusN[S=S+N]
    SplusN --> NN2[N=N+2]
    NN2 --> Decision{Is N>20}
    Decision -- Yes --> PrintS[/Print S/]
    PrintS --> End([End])
    Decision -- No --> SplusN
  
```

**Question (3): Complete the following sentences:**

1. Class is **shape/ plan/ template** which the object is created
2. A **radio button** control is used to select one option from a group of mutually exclusive options.
3. Control Name.Property = **Value**
4. A **list box** control is used to display a list of items.
5. The code window of the control is written between private sub and **End Sub**

**Question (4): Select from group (B) the appropriate one to the other in group (A):**

Group (A)	Group (B)
1. A drop-down list from which an item can be selected.	<b>ComboBox</b>
2. The window which is used to design the (visible interface) of the application.	<b>Form</b>
3. A user can click on it to perform a specific task.	<b>Button</b>
4. A control that users cannot type in (any text) during the run-time.	<b>Label</b>
5. The property which is used to hide the textbox.	<b>Visible</b>

(GOOD LUCK)

3

a- ShowInTaskbar  
b- Location  
c- PasswordChar  
d- ReadOnly

4. The project can run in start debugging mode by pressing \_\_\_\_\_ from the keyboard.  
a- F2      b- F4      c- F7      d- F5

5. The value assigned to property may have several types:  
a- The abstract value.  
b- The logical value.  
c- The value of a variable or property.  
d- All of the above

6. Some advantages for the Flowchart:  
a- Facilitate the programmer writing program.  
b- Useful in explaining the program to other.  
c- Provide better documentation for the program.  
d- All of the above

(GOOD LUCK)

(2) ALEXANDRIA GOVERNORATE 2014 – 2015

**Question (1): Put (✓) or (✗)**

1. To open the code window pressing F4 key on your keyboard.
2. Operating environment CLR is one of .Net Framework components.
3. Label1.Visible = True code used show Label1 tool.
4. Testing program and correcting errors is the last stage of solving the problem.
5. There must be a value for any property.

**Question (2): Write what each of the following statements refers to:**

1. Control tool that has the property PasswordChar. **TextBox**
2. A set of procedures logically arranged that are executed to reach a specific objective.
3. It contains control tools that can be placed on the Form window. **Tool Box**
4. The procedure called when a certain event occurs. **Event Handler**

**Question (3): Choose from column A what suits from column B:**

A	B
1. A property with effect that does not appear until Start Debugging.	(2) a. List Box
2. A tool used to display a list of elements.	(3) b. Project
3. The menu from which a new Form is added to the project.	(4) c. Flowchart
4. Iterations and branching can be represented using	(1) d. StartPosition

**Question (4): Complete the spaces of the flow chart:** to print the Sum of whole numbers from 1 to 3 and correct the chart:  
 $N = 3$   
 $Sum = 6$

Assuming that the number is N and the total is Sum

```

graph TD
    Start([Start]) --> N1[N=1]
    N1 --> S0[Sum=0]
    S0 --> SplusN[Sum+=N]
    SplusN --> NN1[N=N+1]
    NN1 --> Decision{Is N>3}
    Decision -- Yes --> PrintSum[/Print Sum/]
    PrintSum --> End([End])
    Decision -- No --> SplusN
  
```

(GOOD LUCK)

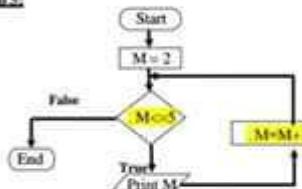
2

**(I) CAIRO GOVERNORATE 2014 - 2015**

**Question (1): (A); Put (✓) or (✗):**

1. Flowchart can be drawn using software only and can't be drawn on paper.
2. The statement is written (`Lbl_Title.Font = Font("arial", 30)`) to adjust the property (Font) for ( Lbl\_Title).
3. Can the user not choose any item in the CheckBox control.
4. When you create a new project, a copy of the project is saved in the memory and one of the storage devices automatically.
5. In IDE screen, displayed properties differ upon the selected element.
6. The effect of all the properties appears during design mode.

**Question (2): Complete draw a Flowchart to print the numbers from 2 To 5.**



**\* In the previous Flowchart:**

- How many times was the content of the loop executed =  4
- What will be the value of (M) after the loop executed =  6

**Question (3): Write the scientific term for each of the following statements:**

1. **[Programming Language]** is a set of instructions and commands are written according to certain rules and then translated to machine Language to execute.
2. **[Define the problem]** is defined the required outputs, available inputs and the processing operations.
3. **[Class]** is the blueprint, from which the individual objects are created.
4. **[Event Handler]** The procedure called into action when an event occurs.

**Question (4): Underline the correct answer:**

1. To hide the minimize and maximize buttons for the Form (Form1) set value (False) for:  
a- MinimizeBox  
b- MaximizeBox  
c- Both a & b   
d- CommBox
2. To change the size of the Label control manually make the value of the property \_\_\_\_\_ equal to False.  
a- AutoSize   
b- Size
3. The \_\_\_\_\_ Property specifies the symbol that will be displayed instead of the written in TextBox.

1