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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2015/2016**

COURSE NAME : PRINCIPLES OF DOT NET
PROGRAMMING

COURSE CODE : DAT 20903

PROGRAMME : DAT

EXAMINATION DATE : JUNE / JULY 2016

DURATION : 2 HOURS 30 MINUTES

INSTRUCTION : A) ANSWER ALL QUESTIONS.
B) ANSWER ONE QUESTION
ONLY.

THIS QUESTION PAPER CONSISTS OF **EIGHT (8)** PAGES

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- Q1**
- (a) Name **SIX (6)** controls used to customize forms. (3 marks)
 - (b) Explain the three-step process for planning a project. (6 marks)
 - (c) Differentiate between Objects and Properties. (4 marks)
 - (d) Distinguish the **THREE (3)** types of programming errors. (6 marks)
 - (e) Describe camel casing. You may give example to support your answer. (1 mark)
- Q2**
- (a) Explain how to make two groups of radio buttons to operate independently on a form. (2 marks)
 - (b) Determine the effect of each of following statements:
 - (i) `printCheckBox.Checked = True`
 - (ii) `colorRadioButton.Checked = False`
 - (iii) `cityLabel.Text = cityTextBox.Text`(3 marks)
 - (c) Prepare a declaration using the `Dim` statement for the following situations. Make up an appropriate variable identifier.
 - (i) Number of hours, which can hold a decimal point.
 - (ii) Department number (not used in calculations).
 - (iii) Description of the item.
 - (iv) Employee's name.(4 marks)
 - (d) Point out the difference between module-level and local in terms of scope of variables. (2 marks)

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- (e) Construct the line of code that assigns the formatted output for the specified value given below:
- (i) A calculated variable called `decAveragePayment` has a value of 123.456 and should display in a label called `lblAveragePayment`.
 - (ii) The variable `sngIncrement`, which contains 0.76, must be displayed as a percentage in the label called `lblPercentIncrement`.
 - (iii) The total amount collected in a charity fund is being accumulated in a variable called `decTotalCollected` with the value 7895.45. The variable will be displayed in a label called `lblTotalCollected` with commas and two decimal positions but no dollar sign.
- (6 marks)
- (f) Complete **Table Q2(f)** with the correct value for `CInt` and `CDec`.
- (3 marks)

Q3

- (a) Prepare flowchart for the following program segment:

```

If intTemp > 32 Then
    If intTemp > 80 Then
        lblComment.Text = "Hot"
    Else
        lblComment.Text = "Moderate"
    End If
Else
    lblComment.Text = "Freezing"
End If

```

(10 marks)

- (b) Convert the following `Select Case` statements to `If` statements.

```

Select Case intCount
    Case 0
        MessageBox.Show("No items entered")
    Case 1 To 10
        MessageBox.Show("1-10 items entered")
    Case 11 To 20
        MessageBox.Show("11-20 items entered")
    Case Else
        MessageBox.Show("More than 20 items entered")
End Select

```

(8 marks)

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- (c) Analyze whether the following condition evaluates **True** or **False**. Assume `intApples = 10`, `intOranges = 20` and `intLemon = -5`.

- (i) `intApples <> intOranges`
- (ii) `intLemon <= 5`
- (iii) `intApples = intLemon`
- (iv) `intOranges > 10`

(2 marks)

- Q4** (a) Write VB .NET statements to do the following:

- (i) Dimension a table called `decTemperature` with five columns and three rows.
- (ii) Set each element in the first row to 0.
- (iii) Set each element in the second row to 75.
- (iv) For each column of the table, add together the elements in the first and second rows, placing the sum in the third row.

(10 marks)

- (b) Distinguish between grid layout and flow layout.

(2 marks)

- (c) Describe the terms below based on a database containing names and phone numbers of your friends:

- (i) File
- (ii) Table
- (iii) Record
- (iv) Field

(8 marks)

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- Q5** A VB Program named Average Score have been developed by a new programmer which allow user to input marks from Input Box (see **Figure Q5**). The program will accept exercise marks from 10 students. Then, the program will calculate the average marks. Every input marks will be added to the current marks and shown at a label named `lblTotal` simultaneously. After the loop exit, the average marks will be calculated and displayed at a label named `lblAverage`. Unfortunately, the customer was not satisfied with the design. The customer requested to input the number of students in a class using text box and display the list of marks in a list box.

The program should include:

- One text box named `txtNoStud` to input number of students.
- Two labels named `lblTotal` to display total marks and `lblAverage` to display average marks.
- Two command buttons named `btnCalculate` and `btnClear`. When `btnCalculate` is clicked, input box will appear repeatedly based on the number of students to receive marks. All marks entered will appear in a list box. Meanwhile, `btnClear` is used to clear the text box and the list box.

- (a) Modify the current interface of Average Score (**Figure Q5**) to solve the above problem.

(5 marks)

- (b) Write a suitable windows program code for Calculate and Clear buttons to solve the problem. The skeleton of the program segments are given in **Figure Q5(b)**.

(15 marks)

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Q6 Build a web form for Web Computing Inventory Price. A firm needs to be able to quickly compute the total price of any item in the inventory. The form will enable user to input values into three textboxes:

- product description
- quantity on hand
- product cost

Your web form should include two command buttons:

- Compute button will display the total value of the inventory product in a label.
- Reset button will clear the form.

(a) Sketch the web interface for the above scenario.

(5 marks)

(b) Write a suitable web program code for Compute and Reset buttons to solve the problem given. The skeleton of the program segments are given in **Figure Q6(b)**.

(15 marks)

-END OF QUESTIONS-

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Table Q2(f)

Contents of String Argument	CInt	CDec
1,000		
A123		
1.5		

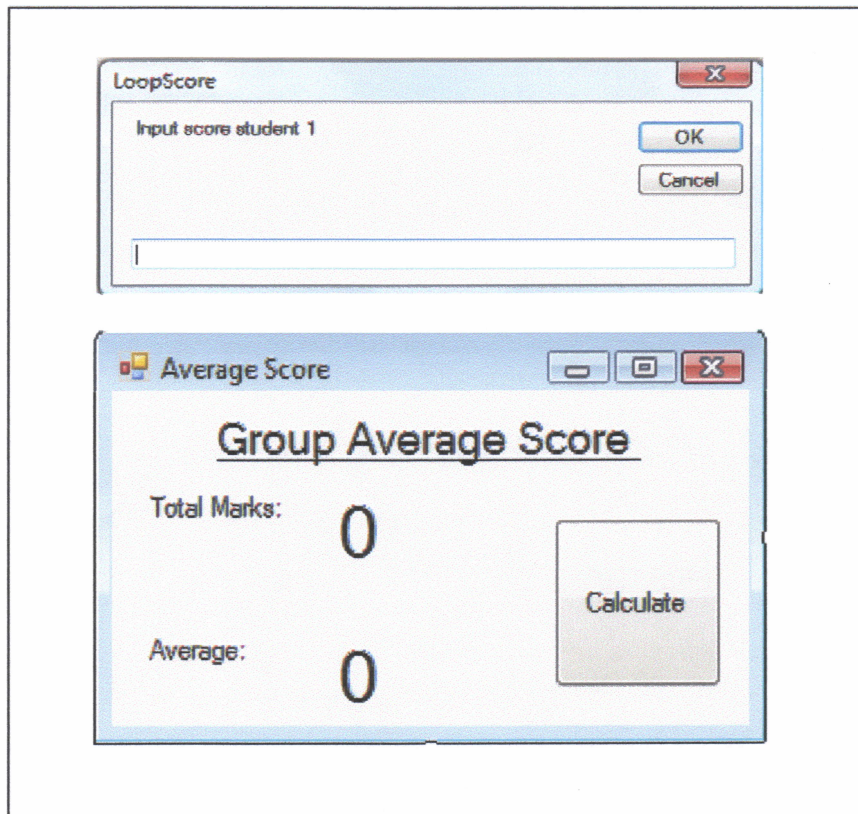


Figure Q5

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```
Private Sub btnCalculate_Click (ByVal sender As System.Object, _  
ByVal e As System.EventArgs) Handles btnCalculate.Click  
    'Enter you code here  
End Sub
```

```
Private Sub btnClear_Click (ByVal sender As System.Object, _  
ByVal e As System.EventArgs) Handles btnClear.Click  
    'Enter you code here  
End Sub
```

Figure Q5(b)

```
Partial Public Class _Default  
    Inherits System.Web.UI.Page  
  
    Protected Sub btnCompute_Click (ByVal sender As Object, _  
ByVal e As EventArgs) Handles btnCompute.Click  
        'Enter you code here  
    End Sub  
  
    Protected Sub btnReset_Click (ByVal sender As Object, _  
ByVal e As EventArgs) Handles btnReset.Click  
        'Enter you code here  
    End Sub  
End Class
```

Figure Q6(b)