

**UNIVERSITY EXAMINATION 2017/2018**

**YEAR III SEMESTER II EXAMINATION FOR THE DEGREE OF  
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY  
BIT 2118: APPLICATION PROGRAMMING I**

**INSTRUCTIONS**

*Answer Question One and any other **two** questions*

**SECTION ONE**

**QUESTION ONE [30 MARKS]**

- a) Explain THREE properties of an object (6 marks)
- b) Write a VB program to display “Welcome to Visual Basic tutorial” message. (6marks)
- c) Write down the output generated by the following VB code segment. (4 marks)

```
Private Sub Form_Activate ( )
```

```
Print 20 + 10
```

```
Print 20 - 10
```

```
Print 20 * 10
```

```
Print 20 / 10
```

```
End Sub
```

- d) Outline THREE steps in Building a Visual Basic Application (3 marks)
- e) Write a VB code that can allow input of two numbers in a text controls and display results in a label control (6 marks)
- f) Define the following terms (5 marks)
  - i. Event
  - ii. Event- driven
  - iii. Method
  - iv. Interface

**SECTION TWO**

**QUESTION TWO [20 MARKS]**

- a) Outline the varies steps to follow to make a GUI and database connection [6 marks]
- b) Using a two-dimension array and selection sort algorithm, rearrange the following numbers from the smallest to biggest number. 23, 2, 3, 34, 6. [14 marks]

### QUESTION THREE [20 MARKS]

a) Name the following list of arithmetic operators and give example on how they are used.

(10 marks)

Operators

i. ^

ii. \*

iii. /

iv. Mod

v. \

b) Rewrite the following Case program using IF..Then..Else control structure (10 marks)

```
Dim mark As Single
```

```
Private Sub Compute_Click()
```

```
'Examination Marks
```

```
mark = mrk.Text
```

```
Select Case mark
```

```
Case 0 to 49
```

```
comment.Caption = "Need to work harder"
```

```
Case 50 to 59
```

```
comment.Caption = "Average"
```

```
Case 60 to 69
```

```
comment.Caption = "Above Average"
```

```
Case 70 to 84
```

```
comment.Caption = "Good"
```

```
Case Else
```

```
comment.Caption = "Excellence"
```

```
End Select
```

```
End Sub
```

### QUESTION FOUR [20 MARKS]

a) Write the syntax of a If.....Then.....Else control structure (5 marks)

b) **Write a program using for... Next loop to generate you name 10 times** (5 marks)

c) Other than textbox and label list and state the properties of control found in the tool box.

(10 marks)

**QUESTION FIVE [20 MARKS]**

a) Design a graphical user interface with one textbox and a command button. Write a click event code that does the following when button is clicked. [6 marks]

i. display the word “Hello Mark” on the textbox

ii. Button caption changes to “OK”

iii. Form caption changes to “Microsoft”

b) Write a program code that uses for loop control to access five contents of one dimension array and multiply each content by 2 before printing it. [14 marks]