



"Investing in Africa's Future"

COLLEGE OF BUSINESS PEACE LEADERSHIP AND GOVERNANCE

PROGRAMMING 1: CIS 202

END OF SEMESTER EXAMINATIONS

JUNE 2018

LECTURER: Mr. Luke Marwa

DURATION: 3 HOURS

INSTRUCTIONS

Answer **ALL** the questions in Paper. Total possible mark is **100**.

Start **each** question on a new page on your answer sheet.

The marks allocated to **each** question are shown at the end of the section.

Question 1

a) Define the following

- i. variable
- ii. Local variable
- iii. Global variable
- iv. Access specifier/ Modifier
- v. parameter

[10 marks]

b) Which of the following are legal and illegal VB.Net variables

- i. Result?
- ii. Ab
- iii. Private
- iv. myNumber
- v. first_number
- vi. 3Number

[6 marks]

Question 2

Write a program to read month (1-12) and 4digit year and display total days in given month and year.

[25 marks]

Question 3

What will be displayed by the following program

```
Module Module1
```

```
    Sub Main()
```

```
        Dim arr() As Integer = New Integer(){1,3,5,7,9} 'initialize arr array
```

```
        Dim i As Integer
```

```
        For i=4 to 0 Step -1 'output arr array
```

```
            Console.WriteLine("{0}*",arr(i) &vbTab)
```

```
        Next
```

```
        Console.ReadLine()
```

```
    End Sub
```

```
End Module
```

[8 marks]

Question 4

- a) There are three constructs in which a program can run that is sequence, decision and looping. Explain each of the three using a program examples [18 marks]

- b) Find any errors in the following VB.NET two programs:

```
Module Module1
```

```
    Sub Main() /* This is the main function
```

```
        Console.WriteLine('VB.NET Programming questions and answers')
```

```
    End Sub
```

[4 marks]

```
End Module
```

- c) Module Module1
 Sub Main()

a,b,sum,subtr As Integer

a=100

b=20

sum=a+b

Sum +=b

subtr=a-b

Console.WriteLine("{0}\t{1}", "a+b", "a-b")

Console.WriteLine("{0}\t{1}", sum, subtr)

End Sub

End Module

[4 marks]

Question 5

- a) Define a function [2marks]
- b) Give two differences of a function and sub procedure [2marks]
- c) State three advantages of modularisation or using sub procedures [3marks]
- d) Write a program that finds and display area of a rectangle and a circle using function [18marks]

END OF PAPER