

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2014/2015**

**YEAR II SEMESTER II EXAMINATION FOR THE DEGREE OF BACHELOR SCIENCE IN INFORMATION TECHNOLOGY**

**BIT 2118: APPLICATION PROGRAMMING I**

**DATE:AUGUST 2015 TIME: 2 HOURS:**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS.**

**QUESTION ONE (30 MARKS)**

**a.** Explain the following

 i. VB.NET (2 marks)

 ii. Console application. (2 marks)

b. Write and explain

 i. A VB – NET statement that will declare two integer variables. (3 marks)

 ii. A declaration of an integer array to contain four elements. (3 marks)

c. Show the procedure of editing, compiling and running a VB.NET console application using a text – editor and the command prompt. (6 marks)

d. Describe the syntax of the If. Then statement. (4 marks)

e. Differentiate between a function and a sub-routine (4 marks)

f. Explain the syntax of the for .. next loop. (4 marks)

g. Explain the meaning of the ADO. NET. (2 marks)

**QUESTION TWO**

a Discuss briefly the following:

 i. NET framework (3 marks)

 ii. ADO. NET (3 marks)

b. Identify and explain two ways of cleaning a text box control. (4 marks)

c. Distinguish between form and windows in VISUAL BASIC. (2 marks)

d. Assume your application has two forms named form 1 and form2 and that form 1 is the project startup form. How do you show form 2 when an action takes place on form1?

 (8 marks)

**QUESTION THREE**

a. Write and explain a subroutine that displays the current date in a message box.

 (6 marks)

b. Identify and describe the two variations of the Do.. loop statement. (8 marks)

c. Illustrate the VB syntax of the If … Then …Else statement. (6 marks)

**QUESTION FOUR**

a. Describe the listBox control syntax for:

 i. Adding items to the list. (2 marks)

 ii. Removing all items from the control . (2 marks)

 iii. Inserting an intem at a specific location. (2 marks)

 iv. Removing an item from the list. (2 marks)

b. Write and explain the code of an application that allows a user to enter the name of their favorite programming language and then evaluates the choice upon clicking of a button.

 The application should display one of two messages as follows: If the user enter :VB” then the outcome is that “VB” is a good language”. otherwise the application will display that the language entered by the user is not a bad language. (12 marks)