

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

## JOMO KENYATTA UNIVERSITY

**OF AGRICULTURE AND TECHNOLOGY**

# University Examinations 2016/2017

**YEAR TWO SEMESTER TWO EXAMINATIONS FOR THE DIPLOMA IN INFORMATION TECHNOLOGY**

**DIT 0406: ADVANCED EVENT DRIVER PROGRAMMING**

**DATE: APRIL 2017 TIME: 1.5 HOURS**

**SECTION A: COMPULSORY**

**QUESTION ONE (30 MARKS)**

a) What is an IPO chart? Why should you use it when creating a program (4 marks)

b) Why is it necessary to follow the object naming conventions when creating a VB.net program (2 marks)

c) Write down the suggested prefixes for the following;

i) Drop down list box

ii) Radio button

iii) Horizontal scroll bar

iv) Picture box

d) What are properties? What purpose do they serve when creating a VB.net program (4 marks)

e) State two methods of changing object properties (2 marks)

f) Describe four object methods in VB.net (4 marks)

g) Describe how you would add lines of code to a textboxes key up event (4 marks)

h) How are comments written in VB.net (2 marks)

i) Identify at least four variable types that can be used when creating a VB.net program (4 marks)

j) What does the VB.net Auto Quick info feature do (2 marks)

**SECTION B: ANSWER TWO QUESTIONS (15 MARKS EACH)**

**QUESTION TWO**

a) Use an example to show how constants are declared in VB.net

(2 marks)

b) Write a program that uses a file for input and displays what is read. The form should consist of a command button and a textbox. Use window’s notepad to create the file data.txt containing the following line 4, High Street (7 marks)

c) Write a program that will return the sum of all number between 1 and 100 (6 marks)

**QUESTION THREE**

a) Write a simple program that displays the contents of a telephone directory. The names and phone numbers are contained in a file. The loop will repeat as long as the end of file is not reached (7 marks)

b) How is a VB.net form terminated (2 marks)

c) Describe the functions of the following format functions. n represents a number/numeric variable (8 marks)

i)format (,n”standard”) ii) Format (n,”#0”) iii) Format (n,”percent”)

iv) Format (n,”scientific”)

**QUESTION FOUR**

a) Use a code snippet to show how random numbers between 1 and 6 are generated in VB.net (3 marks)

b) As a programmer, why should you use modular coding in your program (4 marks)

c) What are the properties of user defined functions (4 marks)

d) What is the difference between byVal and byRef as used in function parameter declaration (4 marks)

**QUESTION FIVE**

a) Give five example of mouse events (4 marks)

b) Write down the code for handling key up events of textbox txt ID on a user registration form. The code should restrict the user to numbers and display a message box prompting the user to enter numbers if non- numerical character keys are pressed (8 marks)

c) There are two types of connection classes in the .Net frame work. Name them and state their functions (4 marks)