

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

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2016/2017**

SECOND YEAR SECOND SEMESTER UNIVERSITY EXAMINATION FOR THE DIPLOMA IN INFORMATION TECHNOLOGY

**DIT 0406: ADVANCED EVENT DRIVEN PROGRAMMING**

**DATE: AUGUST, 2017 TIME: 1 ½ HOURS**

INSTRUCTIONS: ANSWER ALL QUESTIONS IN SECTION **A** (COMPULSORY)AND ANY OTHER TWO QUESTIONS IN SECTION **B**

**SECTION A**

**QUESTION ONE: 30 MARKS**

a. Identify three types of errors you may encounter when designing a VB. Net program. Give an example on each case. (6 marks)

b. Describe four literals in VB.Net (4 marks)

d. What is the difference between a variable and a constant? How are the declared in VB.Net? (4 marks)

d. Define the following terms:- (10 marks)

 i. Object

 ii. Property

 iii. Method

 iv. Design time

 v. Run time

 vi. Break time

vii. Event

 viii. Class

e. Identify any two naming conventions that can be used when naming controls in VB.Net. (4 marks)

f. Why is it important to define the tab index property of your controls when designing a VB.Net program? (2 marks)

**SECTION B**

**QUESTION TWO**

a. Describe how to create hot keys for controls in VB.Net (3 marks)

b. Describe the purpose of visual studio’s intelligence feature. (2 marks)

c. Write down a code snipper for a message box that prompts the user if he/she wants to close a form. The form should close if the user clicks on the yes button. (6 marks)

d. State the functions of the following key words in VB.Net exception handling. (4 marks)

**QUEETION THREE**

a. Write a VB.Net program that displays only even numbers between 10 and 20 on console. (5 marks)

b. Describe at least five components of a visual studio IDE (Integrated Development Environment) (10 marks)

**QUESTION FOUR**

a. State the function of the following form properties. (5 marks)

 i. Font

 ii. Name

 iii. Text

 iv. Top, Left

 v. Enabled

b. State the difference between a checkbox and a radio button control. Use an example to show when each of these controls should be used. (4 marks)

c. VB.Net is an object oriented programming language. Explain. (6 marks)

**QUESTION FIVE**

a. Explain the difference between the following as used in VB.Net programming:-

 i. Label and text box. (2 marks)

 ii. Function procedure and sub procedure. (2 marks)

 iii. Implicit and Explicit declarations. (2 marks)

b. how are multiline strings written in VB.Net? (2 marks)

c. What is a compound assignment operation? Write down four examples of compound assignment operators. (5 marks)

d. What is the main difference between functions and procedures in VB.Net? (2 marks)