



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

MAY – JULY 2016 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

EVENING PROGRAMME

LIS 317: VISUAL BASIC PROGRAMMING

Date: JULY 2016

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any other TWO Questions

- Q1. a) What is the function of the following VB IDE elements?
- (i) Project Explorer Window **(2 marks)**
 - (ii) Object Browser **(2 marks)**
 - (iii) Code Editor Window **(2 marks)**
- b) When do we use the following controls in presenting choices to users?
- (i) Option buttons **(2 marks)**
 - (ii) Checkboxes **(2 marks)**
 - (iii) List box **(2 marks)**
 - (iv) Combo box **(2 marks)**
- c) What do we mean by the following terms as used in VB programming?
- (i) Syntax error **(2 marks)**
 - (ii) Logical error **(2 marks)**
 - (iii) Method **(2 marks)**
- d) Write a code to declare a constant named EDU where data type is single and value of 100. **(2 marks)**
- e) Correct the errors in the following declarations and write the code where the error exist.
- (i) Dim pass & word As string. **(2 marks)**
 - (ii) Dim 4yourName As Integer. **(2 marks)**

- f) Describe the various branching and looping statements used in visual basic programming. Write various code fragments used to support your answer. **(4 marks)**

Question 2 (20 Marks)

- a) Explain any two data aware controls. **(4 marks)**
b) Discuss various type of recordset supported by vb. Application. **(6 marks)**
c) Explain any two advantages of query language support in vb.net application. **(4 marks)**
d) Using appropriate example differentiate between OML and OCL SQL commands. **(6 marks)**

Question 3 (20 Marks)

- a) Differentiate between passing by value and passing by reference. **(2 marks)**
b) What is the advantage of call by reference over call by value? **(2 marks)**
c) Briefly discuss the different debugging skills in VB **(4 marks)**
d) Discuss the basic components of a loop structure in VB **(2 marks)**
e) Write a VB program to accept five numbers then store them in an array. The program should calculate the average of those numbers using function named average which accepts the array as the argument then return the average of the numbers to the calling procedure. You may use an Inputbox to read these numbers. Name the command name as cmdAverage. **(10 marks)**

Question 4 (20 Marks)

- a) Differentiate between implicit and explicit declaration. Give examples to support your answer. **(4 marks)**
b) Explain the three levels of variable scope in VB. For each case, give examples to support your answer. Also indicate the keyword used to define variables at each level. **(6 marks)**
c) A loop contains two basic components. Explain the function of each of those components. **(4 marks)**
d) Differentiate between
(i) Property and method
(ii) General and event procedures
(iii) Variable and constants **(6 marks)**

END

