(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS

2017/2018 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS

YEAR ONE SEMESTER ONE EXAMINATIONS

FOR THE CERTIFICATE IN INFORMATION TECHNOLOGY

COURSE CODE :   ITC 017

COURSE TITLE : VISUAL BASIC PROGRAMMING

DATE: 08/10/2018   TIME: 3.00 PM – 4.00 PM

INSRUCTIONS TO CANDIDATE

ANSWER **QUESTION ONE** AND ANY OTHER TWO

QUESTION ONE (COMPULSORY) [24 MARKS]

a. What do you understand by the following terms as used in visual basic?   [3 marks]
   i. Variable
   ii. Scope
   iii. Array
b. Explain two phases of building visual basic application   [3 marks]
c. Explain the properties of Form Control in visual basic IDE   [3 marks]
d. Discuss various Visual Basic file extensions.   [2 marks]
e. List various elements of visual basic tool box.   [3 marks]
f. Describe four rules for naming the visual basic variables?   [4 marks]
g. What is message box? What is its use? Explain with suitable example   [4 marks]
h. Explain the following statements   [2 marks]
   i. Load statements
   ii. Unload statements

QUESTION TWO [18 MARKS]

a. Using example, explain different types of functions in visual basic?   [3 marks]
b. Explain the structure of visual basic user defined functions   [4 marks]
c. Write visual basic function that will return interest given Principle, Time and Rate. The simple interest **I** is calculated given the Principle as **P**, Rate per annum as **R** (%) and Time **T** in years using the formula **I=PTR/100.**   [6 marks]
d. Distinguish between single document interface and multiple document interfaces, Write one example each of SDI and MDI type application.   [3 marks]
e. Differentiate visual basic subroutines and functions.   [2 marks]

QUESTION THREE [18 MARKS]

a. Discuss global and local scope of a variable with example   [4marks]
b. Write a VB program to process the grades of a student after a click of a button CmdProcess. The marks are obtained from a text field txtMarks.   [6 marks]
c. Explain three types of errors.   [6 marks]

QUESTION FOUR [18 MARKS]

a. Define Comments and their use in visual basic   [2 marks]
b. Visual basic has been designed in such a way that data is handled efficiently, using examples, explain various data types that help in achieving the goal above. [6 marks]
c. Write visual basic program to display selected image after a click of the browse button. The program should allow the user to view as many images as possible.   [6 marks]
d. Explain any three conditional looping structures of visual basic giving syntax of each.   [4marks]

QUESTION FIVE [18 MARKS]

a. What is a Record as used in visual basic?   [2 marks]
b. Explain various differences that exist between Arrays and Records.   [4 marks]
c. Write a visual basic user defined function that returns the largest number of the three numbers passed.   [6marks]
d. Describe various branching statements used in visual basic   [6 marks]