(Knowledge for development)

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS

2020/2021 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS

YEAR ONE SEMESTER ONE EXAMINATIONS

FOR CERTIFICATE IN

(INFORMATION TECHNOLOGY)

COURSE CODE : ITC 017

COURSE TITLE : VISUAL BASIC PROGRAMMING

DATE: 02/02/2022 **TIME:** 8.00 A.M. - 10.00 A.M.

INSTRUCTIONS TO CANDIDATE

ANSWER **QUESTION ONE** AND **ANY OTHER TWO**

QUESTION ONE (COMPULSORY) [24 MARKS]

a. Define the following terms as used in Visual Basic Programing. (10 marks)

    i) Programming

    ii) Semantic

    iii) Syntax

    iv) Debugging

    v) Compiler

b. What is a form? List any **Two** properties of a form. (4 marks)

c. Discuss **Five** reasons why programming is important in today's world of technology. (10 marks)

QUESTION TWO [18 MARKS]

a. A programmer wrote a program and declared each of the following as variable names. Explain, giving a reason, why each could be incorrect.

    i) 123name; (2 marks)

    ii) Number.one; (2 marks)

    iii) EndSub. (2 marks)

b. Outline **Four** characteristic of a Visual Basic programming language. (4 marks)

c. Differentiate the following as used in VB programming

    i) Variable and Constant (4 marks)

d. With examples, describe any **Four** data types in VB programming. (4 marks)

QUESTION THREE [18 MARKS]

a. Explain in detail **Five** different tools present in the VB tool Box. (10 marks)

b. Evaluate each of the following Visual Basic program statements.

    i) $1 + 2* 4/2$ (2 mark)

    ii) $(1 + 2)*4/2$ (2 mark)

    iii) $1 + 2*(4/2)$ (2 mark)

    iv) $(1 + (10 - (2 + 2)))$ (2 mark)

QUESTION FOUR [18 MARKS]

a. VB is rich in built-in operators that tell the compiler to perform specific mathematical or logical manipulations. List any **Three** Arithmetical and Logical operators with their precedence. (6 marks)

c. What is text box? List any Two properties of text box. (4 marks)

d. Distinguish between local and global variables as used in VB Programming language. (4 marks)

e. What is GUI? Mention **Two** reasons why it is important. (4 marks)

QUESTION FIVE [18 MARKS]

a. Write a VB code to calculate the area of a circle. (6 marks)

b. Explain **Five** different looping statements supported in VB. (10 marks)

c. Outline the stage in programming where each of the following errors can be detected.

  i) Syntax Error (1 mark)

  ii) Logical Error (1 mark)