



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS
INFORMATION SYSTEMS

3rd YEAR 1st SEMESTER 2021/2022 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: **ITB 2307**

COURSE TITLE: **PROGRAMMING IN .NET**

EXAM VENUE:

STREAM : **BIS**

DATE:

TIME : **2.00 HOURS**

INSTRUCTIONS:

1. Answer Question 1 (Compulsory) and ANY other two questions
2. Candidates are advised not to write on the question paper
3. Candidates must hand in their answer booklets to the invigilator while in the examination room

QUESTION ONE

(30 marks)

- a) Explain about the following components of the IDE (Integrated Development Environment) in visual programming.NET a) Project explorer b) Code window c)Tool/control window d) Form window e) Menu Bar (5 MARKS)
- b) What is meant by Data encapsulation in Object oriented programming? Write a simple program to demonstrate how a class is defined and declared (5 MARKS)
- c) Describe the main features of .Net programming (5 MARKS)
- d) Compare listBox and ComboBox controls using simple.Net program (5 MARKS)
- e) What is the function of a link label control ?write down codes that's connects a link label control to a WordPad application (5 MARKS)
- f) By giving a simple syntax and code, explain how a nested if statement is used in visual.Net programming. (5 MARKS)

QUESTION TWO**(20 marks)**

- a) Explain the functions of the following Data Access Components
- i) Data set
 - ii) Data Grid View
 - iii) Binding Source
 - iv) Binding Navigator
 - v) Table Adapter (10 MARKS)
- b) Control structures are majorly used in dot NET programming, explain how **for loop** is used giving its syntax and simple line codes. (10 marks)

QUESTION THREE**(20 marks)**

- a) Write a simple .Net program that captures the value of A and B variables from the input device and perform simple arithmetic operation such as (addition, subtraction, multiplication and division) (10ARKS)
- b) Differentiate between Subroutines and Functions with program codes. (10 MARKS)

QUESTION FOUR**(20 marks)**

- a) Write a .Net program using text boxes, radio buttons and check boxes .The application should allow the user to Change Font Effects, Font Color, Font Styles and font size of a given text. (10 marks)
- b) List and Explain the most Four components of the .Net Framework.(10 marks)

Question five**(20 marks)**

- a) Identify and discuss the most common important derived classes of Exception (10ARKS)
- b) Write a program that accepts money in US, British and or Japanese currencies through an Input Box function and converts it to Kenya Shillings,

through the use of a function named convert. The program should output the Kenya Shilling value through a Message Box function upon the click of a command button. (1 US Dollar = 100 Kshs, 1 pound = 120 kshs and 1 yen = 50kshs) (10 MARKS)