



**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**

**3<sup>rd</sup> YEAR 1<sup>st</sup> SEMESTER 2024/2025 ACADEMIC YEAR**

**MAIN CAMPUS**

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**COURSE CODE: ICB 3204/ITB 2307**

**COURSE TITLE: PROGRAMMING IN .NET**

**EXAM VENUE: LAB 6**

**STREAM : BIS**

**DATE: 7/1/25**

**TIME: 2.00 HOURS**

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**INSTRUCTIONS:**

1. Answer Question 1 (Compulsory) and ANY other FOUR 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

- a) Visual studio.NET is a Microsoft integrated environment(IDE) for creating ,documenting, running and debugging programs written in a variety of .NET programming languages, explain some of the common features of .NET programming

(5 MARKS)

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- b) Explain what is accomplished by the Dialogs produces by the following code statements

i) `Msgbox"General failure",vbAbortRetryIgnore+VbExclamation,"Failure Error"` (3 MARKS)

ii) `Age=inputbox("enter age", "input details")` (2 MARKS)

- c) Explain the functions of the following controls elements : a) List box (b) combo box  
(c) Radio control (d) Button (e) Timer

(5 MARKS)

- d) Explain the following types of recordset supported by data access objects(DAO)

i) Table (3 MARKS)

ii) Dataset (2 MARKS)

- e) Briefly discuss about various Arithmetic operators, functions and their usage with a simple .NET program (5 MARKS)

## QUESTION TWO

Study the Application bellow and answer the question that follow

JOOUSTSTUDENT REORD

Tuesday . October

**NAME** ERICK

**ADM NO** BCS/3567

**COURSE** JAVA

**SCHOOL** SIIS

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ADDNEW MOVE NEXT MOVE LAST UPDATE CLEAR

The data control above is linked to a table named JOOUSTstudentRecord in a database called “school.mdb” whose path is “c:\Application\schoo.mdb” table details has the following fields, Student Name, Admission Number, Course and School.

a) Write the code that should be tied to the following command button to achieve the following:

- Add New record
  - Move to Next Record
  - Move to the Last record
  - Update record
  - Clear the record from the Database
- (5 MARKS)

b) The .NET strategy extends the concept of software reuse to the Internet, allowing programmers to concentrate on their specialties without having to implement every component of every application, explain five most common components of the .NET framework (5 MARKS)

### QUESTION THREE

- a) Write a .Net program to determine the greatest value among the three variables x, y and z, if y and x are assigned to different integer values by the user, and the value of z is entered at run time. Find the average value of the three variables. (5MARKS)
- b) Given the table below grades corresponds the message? Use it to answer the question that follows!

Grade	Message
A	Excellence
B	Good
C	Above average
D	Average
E	Fair
Bellow E	Invalid

Write a simple program that will accept a letter i.e. (A to E) through an input box and display the message through message box .use if else .....Then control structure.

(5 MARKS)

#### QUESTION FOUR

- a) By using array techniques, develop a simple student information program, the program should allow the user to enter student's information's such as student name, student registration number, student department and amount of school fees paid through an input box and storing the information entered into list boxes, write codes for each control.

(5 MARKS)

- b) Write a program that accepts money in US, British and or Japanese currencies through an Input Box function and converts it to Kenyan shillings, through the use of a function control named **convert**. The program should display the K.SH value through a Message Box function upon the click of a command button. (1 US Dollar = 130 K.SH, 1 pound =230 K.SH and 1 yen=90 K.SH.

(5 MARKS)

#### Question five

- a) Class Exception of namespace System is the base class of the .NET Framework Exception hierarchy. Identify and discuss the most common important derived classes of Exception.

(5 MARKS)

- b) Write simple .NET program that accepts two integers, compares them and display the relationship between them i.e. whether they are the same or one is greater than the other

(5 MARKS)

#### Question Six

- a) Differentiate between implicit declaration and explicit declaration of variables with examples simple codes

(5 MARKS)

- b) Write a simple visual basic.Net program that captures the value of **X** and **y** Variables from the input box control and perform simple arithmetic

Operation (addition, subtraction, multiplication and division). (5 MARKS)