



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF INFORMATION  
SYSTEMS

II YEAR II SEMESTER 2016/2017 ACADEMIC YEAR

MAIN CAMPUS (SSP)

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COURSE CODE: IIS 3323

COURSE TITLE: USER INTERFACE PROGRAMMING

EXAM VENUE: STREAM:

DATE: EXAM SESSION:

TIME: 2.00 HOURS

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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) Visual programming is all about deploying the Graphical user interface techniques(GUI),explain the meaning of the term “Event driven programming”  
(5 MARKS)
- b) Differentiate between implicit declaration and explicit declaration of variables with examples simple codes  
(5 MARKS)
- c) Compare MsgBox and inputBox control with simple program. (5 MARKS)
- d) Explain click (), load () and setfocust () methods. (5 MARKS)
- e) Explain the functions of timer control while developing GUI application  
(5 MARKS)
- f) Compare option button and check box controls with a simple user interface program. (5 MARKS)

## QUESTION TWO

20 marks

- a) Explain how array is declared and initialized with simple program implementation (10 MARKS)
- b) Differentiate between Subroutines and Functions. (10 MARKS)

## QUESTION THREE

20 MARKS

- a) Write a simple user interface program that captures the value of x and variables from the input box control and perform simple arithmetic operation(addition,subtraction,multiplication and division) (10 MARKS)
- b) Control structures are majorly used in programming, explain how **for loop** is used giving its syntax and simple line codes to demonstrate their use. (5 MARKS)

## QUESTION FOUR

20 MARKS

- a) Explain the components of the IDE (Integrated Development Environment) (10 MARKS)
- b) Write user interface program using **IF statement** to determine the least value among the three variables x, y and z, if y and x are assigned to different integer values by the user, then use the inputbox control to enter the value of z at run time . (10 marks)

## QUESTION FIVE

20 MARKS

- a) Write down the codes for Add new, Delete, update, Move to next record, Go to Previous record, go to first record and go to last record using Data Access Object or Data Environment on a data base application (10 MARKS)
- b) Explain the features of user interface programming (10 MARKS)

