



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF INFORMATION
COMMUNICATION TECHNOLOGY

2rd YEAR 1st SEMESTER 2018/2019 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: **ICT 3213**

COURSE TITLE: **PROGRAMMING IN .NET**

EXAM VENUE:

STREAM : ICT

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) 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)
- b) What is a class method? Write a simple program to illustrate how a class is defined and declared
(5 MARKS)
- c) Describe the essential features of object oriented programming paradigm
(5 MARKS)
- d) Explain the functions of the following controls elements :a) List box (b)combo box (c)Radio button (d)command Button (e)Timer
(5 MARKS)
- e) Briefly describe each of the following IDE features
a) Project window
b) Menu bar
c) Tool box control
d) Form window
(5 MARKS)
- f) Briefly discuss about various Arithmetic operators, functions and their usage with a simple java program
(5 MARKS)

QUESTION TWO 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(DAO) or ActiveX data object(ADO) on a data base application
(10 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 some of the most common components of the .NET framework. (10 marks)

QUESTION THREE 20 marks

- 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.
(10 MARKS)
- c) Compare MsgBox and inputBox controls with a simple .NET programs
(10 MARKS)

QUESTION FOUR 20 marks

- 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. (10 MARKS)

- b) 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)

Question five 20 marks

- 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 (10 MARKS)
- b) Differentiate between implicit declaration and explicit declaration of variables with examples .Net programs (10 MARKS)