

GARISSA UNIVERSITY

UNIVERSITY EXAMINATION 2017/2018 ACADEMIC YEAR ONE THIRD SEMESTER EXAMINATION

SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCE FOR THE DIPLOMA IN INFORMATION TECHNOLOGY

COURSE CODE: DIT 008

COURSE TITLE: INTRODUCTION TO PROGAMMING USING C

EXAMINATION DURATION: 2 HOURS

DATE: 07/08/18 TIME: 2.00-4.00 PM

INSTRUCTION TO CANDIDATES

- The examination has SIX (6) questions
- Question ONE (1) is COMPULSORY
- Choose any other THREE (3) questions from the remaining FIVE (5) questions
- Use sketch diagrams to illustrate your answer whenever necessary
- Do not carry mobile phones or any other written materials in examination room
- Do not write on this paper

This paper consists of TWO (2) printed pages

please turn over

QUESTION ONE (COMPULSORY)

a. Define the following:

I. What is a variable
II. What are the features of low level language
III. System Software.
IV. What is a class
V. What is an object
[3 Marks]
IV. What is an object
IV. What is a class
IV. What is an object
IV. What is an object

b. What is an operator? Describe different types of operators that are available in C language. [6Marks]

QUESTION TWO.

a. Write a program to check whether a number is even or odd. [9 Marks]

b. What is the precedence of comma operator compared with other C operators [6 Marks]

QUESTION THREE.

a. Draw a flow chart to print all integers from 1 to 1000 [9Marks]

b. Give three methods by which a program can repeat itself [6 Marks]

QUESTION FOUR.

a. List different types of decision control statement. Explain the type of if statements and give one [10 Marks]

b. Write a program to check whether a number is even or odd [5 Marks]

QUESTION FIVE.

a. Write a program to find sum of digits of a number [9 Marks]

b. Differentiate between digital and analog computers. [6 Marks]

QUESTION SIX.

a. Difference between while and do while loop. [8 Marks]

b. With the aid of a diagram, describe how computer units interact. [7 Marks]