



GARISSA UNIVERSITY COLLEGE

(A Constituent College of Moi University)

**UNIVERSITY EXAMINATION 2016/2017 ACADEMIC YEAR ONE
SECOND SEMESTER EXAMINATION**

SUPPLEMENTARY/SPECIAL EXAMINATION

SCHOOL OF INFORMATION SCIENCE

FOR THE DIPLOMA IN INFORMATION TECHNOLOGY

COURSE CODE: DIT 008

COURSE TITLE: C COMPUTER PROGRAMMING

EXAMINATION DURATION: 3 HOURS

DATE: 30/09/17

TIME: 09.00-12.00 PM

INSTRUCTION TO CANDIDATES

- **The examination has FIVE (5) 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

Supplementary / special exam_

1

please turn over

Good Luck – Exams Office



QUESTION ONE (COMPULSORY)

- (a) Describe the process of solving a problem using computers (12 mks)
- (b) Give TWO advantages and disadvantages of using flow-charts in a program (4mks)
- (c) List FOUR advantages and disadvantages of representing a problem using pseudo-codes (4mks)
- (d) Write a program that will read three integers compute and produce the product; (5mks)

QUESTION TWO

- (a) Describe the C program compilation process (10 mks)
- (b) What are advantages of High-level languages over Low level language (5mks)

QUESTION THREE

- (a) Discuss any three decision making and branching statements in C (6 mks)
- (b) Explain any two types of errors that may occur during programming process (5mks)
- (c) Explain the three classes of data types supported by ANSI C (4 mks)

QUESTION FOUR

- (a) Write a program that will compare two characters and determine which is greater than the other
 - i. without using a else option (10mks)
 - ii. with an else option (5mks)

QUESTION FIVE

- (a) Discuss the control statements used in structured programming. (5mks)
- (b) Write a C program to print natural numbers from 1 to 10 (5mks)
- (c) What do you understand by operators? Discuss any Four Operators (5 mks)

