



GARISSA UNIVERSITY

**UNIVERSITY EXAMINATION 2017/2018 ACADEMIC YEAR ONE
SECOND SEMESTER EXAMINATION**

**SCHOOL OF COMPUTER AND INFORMATION SCIENCES
FOR THE DIPLOMA INFORMATION ECHNOLOGY**

COURSE CODE: DIT 001

COURSE TITLE: PRINCIPLES OF INFORMATION TECHNOLOGY

EXAMINATION DURATION: 3 HOURS

DATE: 09/04/18

TIME: 09 .00-12.00 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 a computer algorithm **[1 mark]**
- (b) Explain the meaning of an peripheral, giving two example devices that are in this category **[3 marks]**
- (c) Define the term computerization **[1 mark]**
- i. State and explain the advantages of a computerized system over the manual system **[10 marks]**
- ii. State and describe the roles of ICT to and organization **[10 marks]**

QUESTION TWO

- (a) Define the term data processing **[1 mark]**
- (b) State and describe the stages of data processing cycle **[10 marks]**
- (c) Differentiate Logical file and physical file **[4 marks]**

QUESTION THREE

- (a) Define the term Application software **[1 mark]**
- (b) State and explain the word processing function **[10 marks]**
- (c) State the features of the word processing application **[4 marks]**

QUESTION FOUR

- (a) Define the term system **[1 mark]**
- (b) State and explain two components of an information system **[4 marks]**
- (c) There are different types of information system. State and describe them **[10 marks]**

QUESTION FIVE

- (a) Differentiate between the Local Area Network and Wide Area Network **[1 mark]**
- (b) The open system interconnect (OSI)model has seven layers describe each layer **[14 marks]**

QUESTION SIX

- (a) Define the following term
- i. Hardware **[1 mark]**
- ii. Software **[1 mark]**
- iii. Data **[1 mark]**
- iv. Information **[1 mark]**
- v. computer technology **[1 mark]**
- (b) Briefly describe the computer generations **[10 marks]**