



## **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 001**

**COURSE TITLE: PRINCIPLES OF INFORMATION TECHNOLOGY**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 06/08/18**

**TIME: 2.00-4.00 PM**

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#### **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 term computer software [1 Mark]
- (b) Differentiate between operating system and Application software. Stating examples of each [4 Marks]
- (c) State and describe the elements of a computer system [12 Marks]
- (d) Using a diagram state and explain the components of the central processing unit (CPU) [9 Marks]
- (e) Distinguish between an input device and an output device. Give examples [4 Marks]

### QUESTION TWO

- (a) Define the term port [1 Mark]
- (b) State and illuminate the variety of ports [14 Marks]

### QUESTION THREE

- (a) Elucidate the following terms
  - i. Hardware
  - ii. Software
  - iii. CPU
  - iv. Peripheral device
  - v. Hertz
- (b) State and explain factors that determine the processing power of a computer [10 Marks]

### QUESTION FOUR

- (a) Discuss the term operating system [1Mark]
- (b) State and explain the functions of an operating system [14 Marks]

### QUESTION FIVE

- (a) The term ICT stand for? [1 Mark]
- (b) Discuss and explain the advantages of a computerized file system over the manual file system [14 Marks]

### QUESTION SIX

- (a) State and explain the components of an information system [12 Marks]
- (b) List three types of information system [3 Marks]

