****

**GARISSA UNIVERSITY**

**UNIVERSITY EXAMINATION 2020/2021 ACADEMIC YEAR ONE**

**SECOND SEMESTER EXAMINATION**

**SCHOOL OF SCHOOL OF PURE AND APPLIED SCIENCES**

**FOR THE CERTIFICATE IN INFORMATION TECHNOLOGY**

**COURSE CODE: CIT 002**

**COURSE TITLE: COMPUTER APPLICATIONS**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 18/08/2021 TIME: 09.00-2.00 AM**

**INSTRUCTION TO CANDIDATES**

* **The examination has FIVE (5) questions**
* **Question ONE (1) is COMPULSORY**
* **Choose any other TWO (3) questions from the remaining FOUR (4) 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)**

1. Differentiate between the following terms; (10marks)
2. Data and Data processing
3. Data and information
4. Computer hardware and computer software
5. Input devices and output devices
6. RAM and ROM
7. Outline areas where information technology can be applied (5marks)
8. Outline at least four difference of data and information (4marks)
9. Describe the characteristics of a computer in terms of: (6marks)
   1. Diligence
   2. Versatility
   3. Accuracy
10. The control unit operates by repeating three operations. State them and explain them
11. Define the word peripheral devices and give at least four example (6marks)

**QUESTION TWO**

1. Outline factors to consider when buying a computer (5marks)
2. Explain three types of computers classified according to functionality (6marks)
3. Differentiate between Analog and Digital computers (4marks)
4. Why is RAM referred to as a volatile memory? (1mark)
5. State three methods of data processing (3marks)

**QUESTION THREE**

1. Explain meaning of special purpose computer and give one examples of the same (2marks)
2. Name any four classes of computers based on physical size (4marks)
3. State seven advantages of the computer (7marks)
4. List factors to consider when buying a computer (5marks)
5. State two types of RAM (2marks)

**QUESTION FOUR**

1. Halima is secretary in one of the company’s in Garissa; she was therefore requested by his boss to write a letter to each worker informing them that during Jamuhuri day there will be a celebration in the company due to accomplishment of the company’s dreams. As an IT professional advice her type of application she will use and the procedure to mail merge the letter to all workers in the company. (10marks)
2. With an aid of diagram, explain ring topology, stating its advantages and (5marks)
3. State five factors that determines the processing power of a computer (5marks

**QUESTION FIVE**

1. Define the term; Operating System and give two examples of Operating system (4marks)
2. State five functions of the operating system (5marks)
3. Outline criteria for selecting suitable Data processing methods (5marks)
4. List and explain four features of database package (4marks)
5. Define the term primary key (2marks)