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**GARISSA UNIVERSITY**

**UNIVERSITY EXAMINATION 2020/201 ACADEMIC YEAR ONE**

**SECOND SEMESTER EXAMINATION**

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

**DIPLOMA IN INFORMATION TECHNOLOGY**

**COURSE CODE: DIT 010**

**COURSE TITLE: MANAGEMENT INFORMATION SYSTEM**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 25/08/2021 TIME: 12.00-2.00 PM**

**INSTRUCTION TO CANDIDATES**

* **The examination has FOUR (4) questions**
* **Question ONE (1) is COMPULSORY**
* **Choose any other TWO (2) questions from the remaining THREE (3) 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. Define the following;
2. Information System (2 Marks)
3. Database Management System (2 Marks)
4. File (2 Marks)
5. Database (2 Marks)
6. State and explain the types of Information (4 Marks)
7. In relation to Information Systems (IS), frequently data back-up is necessary in ensuring security of information from external attacks and system damage.
8. State and explain the common types of information systems attack (4 Mark)
9. Explain the three types of file organization in relation to Information Systems (3 Marks)
10. Convert 230MB to Kbyte as a memory allocation unit (2 Marks)
11. Convert the following number systems; -
    1. **BF16** to binary number system  (2 Marks)
    2. **61458** to decimal number system (3 Marks)
12. State and explain two factors you will consider before purchasing an operating system (4 Marks)

**QUESTION TWO**

1. State and explain components of data communication in relation to management information systems and telecommunications (10 Marks)
2. Aisha was recently employed in Garissa University ICT department as system developer which deals with support and maintenance of student management system. The institution wanted to replace the student management system with another one from UK. As a member of the project team, explain the different ways you can use to implement the new system without interfering much with the services offered by the institution. (8 Marks)
3. State any two personnel/ department necessary when implementing an Information Systems (2 Marks)

**QUESTION THREE**

1. State and explain the components of Information Systems (12 Marks)
2. Explain the types of assets in relation to information system security (6 Marks)
3. Explain any two security controls an institution can implement to secure their management information system (2 Marks)

**QUESTION FOUR**

1. State the functions of an information systems (3 Marks)
2. Explain four qualities of a good information (4 Marks)
3. State and explain causes of project failures in relation to management information systems (4 Marks)
4. Explain what is a star topology (3 Marks)
5. Define cloud Computing (2 Marks)
6. State and explain any two types of clouds in relation to cloud computing (4 Marks)