

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
INFORMATION SCIENCE**

BSIS 456: DATABASE CONSTRUCTION AND MANAGEMENT

STREAMS: BSC (IS)

TIME: 2 HOURS

DAY/DATE: MONDAY 29/03/2021

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- **Answer question ONE and ant other TWO questions.**
- **Do not write on the question paper.**

- (a) Explain FIVE functions of a database system in an organization. (10 marks)
 - (b) A library database is prone to numerous security threats. Discuss the security threats facing library database. (10 marks)
 - (c) Explain FIVE attributes of a Data Base Management System. (10 marks)
- (a) Explain FIVE components of database system. (10 marks)
 - (b) Explain FIVE measures to put in place to ensure security of a database system in an information centre. (10 marks)
- (a) Explain FIVE aggregate functions of SQL language. (10 marks)
 - (b) Explain FIVE attributes of a relational model. (10 marks)
- (a) Explain FIVE key requirements of a secure database system. (10 marks)
 - (b) Describe FIVE elements of SQL. (10 marks)

5. (a) Explain FIVE measures put in place to control access in a library database system. (10 marks)
- (b) Explain the meaning of the following terms. (10 marks)
- (i) Database
 - (ii) Record
 - (iii) Field
 - (iv) Data warehouse
 - (v) Schema
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