

# ELIZADE UNIVERSITY, ILARA MOKIN

DEPARTMENT OF COMPUTER SCIENCE AND MATHEMATICS

2020/2021 FIRST SEMESTER EXAMINATIONS

COURSE CODE: CSC 305

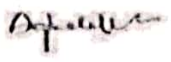
COURSE TITLE: DATABASE SYSTEM I

UNITS: 3

INSTRUCTION: ATTEMPT QUESTIONS 1 AND ANY OTHER 3 TIME ALLOWED: 2½Hrs

## QUESTION 1

HOD's SIGNATURE



- Define the term 'database management system.'
- List the common categories of database management systems.
- Outline the logical structure of a relational database by means of an E-R diagram.
- List the components of an E-R diagram.
- State the specific roles of each component of an E-R diagram.
- State the essential elements of an entity-relationship diagram

## QUESTION 2

- Describe the concept of mapping cardinalities with respect to entity relationship diagram.
- List five common features of database management systems.
- Identify four classical forms of data manipulation.

## QUESTION 3

- Describe any three components of a data structure
- Explain how statements in a query language are translated.
- State the data structures required for physical system implementation.

## QUESTION 4

- State the categories of data independence. How would a database administrator define a schema?
- Describe a data dictionary.
- How do sophisticated users interact with database systems?

## QUESTION 5

- Describe object-based logical models.
- List the common types of object-based logical models.
- Explain the concept of entity-relationship models.

## QUESTION 6

- Identify the main components of a database management system
- Give a brief description of relationship sets. How would you specify a relationship set in formal terms?
- State the link between entities and programming languages