

Mid-West University
Examinations Management Office
Final Examinations -2082

Bachelor level/BIT/I Semester
Time: 3 hrs.
Subject: Database Management System (BIT416)

Full Marks: 60
Pass Marks: 30

Candidates are required to give their answers in their own words as far as practicable. Figures in the margins indicate marks.

Group A

Very short questions (Attempt all)

[8 x 2 = 16]

1. Write any two examples of database?
2. Define key attributes?
3. Write a SQL syntax of table creation with primary key.
4. What is data encryption?
5. Explain cartesian product.
6. Define system recovery.
7. Write the difference between data and information?
8. What is RDBMS?

Group B

Short answer questions (Attempt any five)

[5 x 4 = 20]

9. What is database security? Explain any two types of elements of database security.
10. Explain the relational model with suitable example.
11. What is data redundancy? Explain the data anomalies with its types.
12. Define database backup strategies and elaborate on any two types of backup strategies.
13. Illustrate the need of database security? Explain the main aspects of database security.
14. Define database administration. With its some common types.

Group C

Long answer questions (Attempt any three)

[3 x 8 = 24]

15. Why Normalization is need in database? Explain 1st, 2nd, and 3rd Normalization with its examples.
16. a) Discuss the functional dependency with its property.
b) Why SQL is required? Explain the Data manipulation language with example.
17. What is ER model? Draw ER- Diagram of Bus Reservation System and explain.
18. What is a Database Management System (DBMS)? Explain the advantages of a DBMS over a flat-file system.

The End