



Accurate Institute of Management & Technology, Greater Noida  
First Sessional Exam (Even Semester 2020- 21)

Course: - MCA Year: - First Year

Semester:-2nd

Subject Name: - Database Management System

Maximum Marks:-30

Paper Code: - KCA-204

Time Duration:-90 minutes

Roll No.....

Note- Attempt all questions.

SECTION - A

Q1. Attempt all Questions

(5×2 = 10 marks)

- (a). Explain Specialization.
- (b). Define DML.
- (c). Explain Logical data Independence.
- (d). Explain the difference between Strong & Weak Entity set with example.
- (e). What do mean by Aggregation?

SECTION - B

Q2. Attempt any *one* part of the following

(1 × 3 = 3 marks)

- (a). Discuss the role of database administrator.

OR

- (b). Define Super key, Candidate key, Primary Key & Foreign key with example.

Q3. Attempt any *one* part of the following

(1 × 3 = 3 marks)

- (a). Draw an ER diagram of Hospital or Bank with showing the Specialization, Aggregation, Generalization.

OR

- (b). Explain the Advantages of DBMS.

Q4. Attempt any *one* part of the following

(1 × 3 = 3 marks)

- (a). Define the following terms.

i. DDL commands ii. DML commands iii. DCL commands iv. TCL commands

OR

- (b). Explain Different Architecture of DBMS.

Q5. Attempt any *one* part of the following

(1 × 3 = 3 marks)

- (a). What are Different Mapping Cardinalities? Explain

OR

- (b). Explain the following with Example

i. Specialization ii. Generalization

SECTION - C

Q6. Attempt any *one* part of the following

(1 × 4 = 4 marks)

- (a). Explain the differences between Physical level, Conceptual level and View level of data abstraction.

OR

- (b). What are the Disadvantages of file System which were removed by DBMS?

Q7. Attempt any *one* part of the following

(1 × 4 = 4 marks)

- (a). What is ER Diagram? Explain Different component of ER diagram with their Notation. Also make an ER Diagram for Employee Project Management System.

OR

- (b). What is Data Model? Explain the types of data model used.

