Question Paper

MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL SCHOOL OF INFORMATION SCIENCES, MANIPAL
FIRST SEMESTER MASTER OF SCIENCE- M.Sc. (INFORMATION SCIENCE) DEGREE EXAMINATION - FEBRUARY 2021
Database Management Systems [MIS 503]

Marks: 100   **Duration: 180 mins.**

WEDNESDAY, FEBRUARY 10, 2021

Answer all the questions.

1)	Mention the database management facilities and explain four categories of SQL commands (TLO 1.1)	(10)
2)	Define the following terms: (TLO 2.1)	(10)
	a) External schema b) DDL c) DML d) SDL e) Query Language	
3)	With an example differentiate database schema and database state (TLO 2.1)	(10)
4)	What is client-server DBMS architecture? Explain 3-tier client-server architecture (TLO 4.1)	(10)
5)	Explain different types of relationship between instances? (TLO 4.1)	(10)
6)	What are attributes? Brief about various classes of attributes (TLO 3.1)	(10)
7)	What is specialization and generalization? What are the constraints on specialization and generalization? (TLO 5.1)	(10)
8)	With an example explain the types of disjoint and overlapping constraints (TLO 3.2)	(10)
9)	Explain foreign key violation with example (TLO 6.1)	(10)
10)	Give an example to illustrate Select and Where Clauses in DML with group by and order by syntax (TLO 5.1)	(10)

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