

Odd Semester Examination-2024
M.Sc (1st Year) 1st Semester

Title of the Paper: Database Management system (DSE-I)

Paper Code: MCSB DSE11

Time: 2 Hours & 30 Minutes

Maximum Marks: 60

Section-A

Short Answer Compulsory Questions:- (4x5= 20)

Q. No.	Question	CO	BL
1.	Explain two - tier and three - tier architecture of Database System using a suitable diagram.	CO2	BL2
2.	What do you understand by Primary Key, Candidate Key and Super Key?	CO1	BL1
3.	Explain DDL and DML commands with example.	CO3	BL3
4.	What is ORDBMS? Explain the key advantages and disadvantages of ORDBMS.	CO2	BL2

Section-B

Attempt any Four Questions from this section:- (4x10= 40)

Q. No.	Question	CO	BL
1.	What do you understand by Functional Dependency? Using example explain properties of Functional Dependencies.	CO3	BL3
2.	Create an ER diagram for Bus Ticket Booking System choosing at least 4 entities, corresponding attributes and relationships. Also convert ER Diagram to tables.	CO4	BL4
3.	Write Short notes on : (i) OLAP (ii) Spatial Database (iii) Data Warehouse (iv) Mobile Database	CO1	BL1
4.	Explain Full Outer Join, Left Outer Join, and Right Outer Join with suitable examples.	CO2	BL2
5.	What is Normalization? What are the conditions required for a relation to be in 2NF, 3NF and BCNF? Explain with suitable example.	CO3	BL3
6.	Define Attributes and Relationship with suitable examples.	CO4	BL4