Name: Student University Roll No.:	Printed Pages:1

School of Engineering
First Theory Sessional Examination
Even Semester (AS: 2024-25)

B. Tech: CSE/IOTBC/CCML/CSEAI [Year: 2nd] [Semester: 4th]

Course Title: Database Management System Course Code: NCS4401	Max Marks: 30 Time: 1hrs

Instructions if any: Read the question Carefully.

	SECTION 'A' Q.N.1. Attempt all parts of the following:	Course Objective	Marks
a)	What is the significance of Physical Data Independence?	CO1	1
b)	What do you understand by DML?	CO1	1
c)	Explain weak entity with example.	CO2	1
d)	What is Schema?	CO1	1
e)	List the four functions of DBA.	CO1	1
	SECTION 'B' **Q.N.2. Attempt any two parts of the following:**	**Course Objective**	**Marks**
a)	What are data models? Briefly explain its types.	CO2	7.5
b)	Draw the ER-Diagram for Hospital Management System?	CO2	7.5
c)	Explain the Three-Schema Architecture of DBMS with a neat diagram.	CO1	7.5
	SECTION 'C' **Q.N.3. Attempt any one part of the following:**	**Course Objective**	**Marks**
a)	Differentiate between DBMS and file processing system. State advantages of DBMS over file processing system.	CO1	10
b)	Explain data abstraction in DBMS?	CO1	10
c)	Consider the following schema for institute library: Student (RollNo, Name, Father_ Name, Branch) Book (ISBN, Title, Author, Publisher) Write the following queries in SQL : (i) Create table Student and Book. (ii) Insert records in above table. (iii) Display the above table.	CO2	10

Table 1: Mapping between COs and questions
(Number of COs may vary from course to course)

COs	Questions Numbers	Total Marks
CO1	1(a, b, d, e), 2(c), 3(a, b)	31.5
CO2	1(c,), 2(a, b), 3(c)	26

11.03.2025