Pune Institute of Computer Technology, Pune-43 **DEPARTMENT OF INFORMATION TECHNOLOGY** (Academic Year – 2023-24 Sem-II)

UNIT TEST - I

Subject: Database Management System

Subject Code: 214452 Div.: IX, X, XI [Max. Marks: 30] Class: SE Date: 21/02/2024 Day: Wednesday Duration: 1 Hour

Instructions to the candidate:

1. All questions are compulsory

2. Draw neat diagram wherever necessary.

Que. No.	Questions	Max Marks	CO Mapped	Bloom's Learning Level
1-a	Explain Data Abstraction? What is the role of Data abstraction in DBMS?	05	CO-I	L1- Remembering
1-b	What is need of Data modeling? What are different types of Data Model? Explain all.	05	CO-I	L2- Understanding
1-c	Describe three level Architecture of DBMS. Explain how it is useful for achieving data Independence.	05	CO-I	L2- Understanding
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2-a	What are the various types of attributes? Explain each with example along with how it shows in E-R Diagram?	05	CO-II	L2- Understanding
2-b	Consider the following E-R Diagram: a) Convert above E-R into Table b) How many tables will be created using the above scenario? c) What will be the primary key and foreign key? d) If in above diagram mapping cardinality is one to many then what will be table structure.	05	CO-II	L3- Applying
2-с	Explain the concepts of Referential Integrity Constraint and Entity Integrity Constraint with example.	05	CO-II	L3- Applying

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Course Outcomes (CO Mapped):

CO-I	Students will be able to specify fundamentals of database management system such as need of database system, data abstraction and overall architecture of DBMS. [Knowledge][L1,L2]
CO-II	Students will be able to use relational data modelling concepts to draw ER/EER model and apply rules for conversion to relational schema. [Application][L2,L3]

Bloom's Taxonomy (Bloom's Learning Level):

L1	Remembering	Recall specific facts
L2	Understanding	Grasp meaning of materials
L3	Applying	Use information in a new situation
L4	Analyzing	Identify schemas or relationships
L5	Evaluating	Use information to make judgments
L6	Creating	Create or develop something new

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