

2211040101010003
EXAMINATION JANUARY 2025
MASTER OF COMPUTER APPLICATIONS(FIRST SEMESTER)
DATABASE MANAGEMENT SYSTEM - LEVEL 1

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination : **MASTER OF COMPUTER APPLICATIONS (FIRST SEMESTER)**
 - b. Name of the Subject : **DATABASE MANAGEMENT SYSTEM LEVEL 1**
 - c. Subject Code No : **2211040101010003**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Do as directed: 14

A) Explain relational model with an example. 6

-OR-

A) Draw an ER diagram for online attendance system. 6

B) How NoSQL is different than SQL? 5

C) What is referential integrity constraint? 3

Q.2 Do as directed: 14

A) Explain physical and logical structure of Oracle in brief. 6

B) Explain various steps of Oracle server start-up in detail. 5

- OR -

B) Explain various steps of Oracle server shutdown in detail. 5

C) What is a parameter file in Oracle Database? 3

Q.3 Do as directed: **14**

A) What is a stored procedure? Create a stored procedure to calculate percentage of student for 3 subject marks. Consider required fields for student table. **6**

-- OR --

A) What is a cursor? Explain implicit cursor and explicit cursor? **6**

B) How to create a trigger in PL/SQL? Write a trigger to check whether student marks is less than 40 or not. Consider required fields for student marks table. **5**

C) What are Oracle database data types? **3**

Q.4 Do as directed: **14**

A) What is a table space? Explain default and temporary table space in detail. **6**

-- OR --

A) Write the syntax and explain Create Table command with all options in detail. **6**

B) How to manage quota for memory and CPU resources? **5**

C) Name two main type of Database Backup. **3**

Q.5 Do as directed: **14**

A) Explain system security. How to give Oracle object privileges to user? Explain with example. **6**

B) Explain alter table command with all options in detail. **5**

-- OR --

B) What is functional dependency? Explain transitive functional dependency with an example. **5**

C) Explain how to grant a privilege to all the users of the database using a single grant command. **3**

*****END*****