

RAN-2411000802030001
M.Sc. (AI-ML) (Sem.-II) Examination April - 2026
Advanced RDBMS (Paper : 203)
Time: 3 Hours]
[Total Marks: 70

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book	Seat No.: Student's Signature
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- Q.1. Answer the following (Any Two) 14**
1. Define Normalization. Explain Third Normal Form (3NF) with suitable example. 07
 2. Describe the notion of keys in a relational database. How are Candidate Keys identified from a set of Functional Dependencies? 07
 3. Explain Join Dependencies and Fifth Normal Form (5NF). How does 5NF differ from 4NF? 07
- Q.2. Do as directed. 14**
1. Describe the Oracle Server Start-up and Shutdown process. 07
 2. Explain the physical structure of Oracle Database. 05
- OR**
2. Explain the steps involved in Creating a Database in Oracle with the necessary parameters. 05
 3. Write in short about Oracle Instance. 02
- Q.3. Answer the following (Any Two) 14**
1. What is an Explicit Cursor? Write an Explicit Cursor program to display all employee names from the EMP table. 07
 2. Explain the structure of a PL/SQL block with all its sections. 07
 3. List and explain DDL statements with syntax and example. 07
- Q.4. Do as directed. 14**
1. Describe the Backup in Oracle. Explain types of failures and types of backups (physical/logical, full/incremental). 07
 2. Explain about Recovery in Oracle. 05
 3. Define a Profile in Oracle. What is its significance? 02
- OR**
3. Write in short about Tablespace. 02
- Q.5. Answer the following (Any Two) 14**
1. Explain Database Roles in Oracle in detail. How are roles created, granted, and managed? 07
 2. Describe the GRANT and REVOKE statements with syntax and examples. 07
 3. Explain Database Auditing in Oracle. Describe Statement Auditing. 07