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RAN-2211040101010003

M. C. A. (Sem. - I) Examination April - 2025

Database Management System (DBMS) (Paper - 101)

Time: 3 Hours]

[Total Marks: 70

સૂચન : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:
☛

Name of the Subject :
☛

Subject Code No.:

Seat No.:

- Q. 1. Do as directed: [14]**
- A. Explain relation model. Create a relation model for student information system. **06**
- OR**
- A. Draw an ER diagram for Online Property Booking System. **06**
- B. Consider the table Student (Enrollid, Name, city, gender, emaild, PANCard, bdate, aadhar_no) **05**
Identify a few super keys, candidate keys and 1 primary key. Justify your answer.
- C. Differentiate SQL and NoSQL. **03**
- Q. 2. Do as directed: [14]**
- A. Explain oracle instance architecture in detail. **06**
- OR**
- A. Explain DBWR and LGWR process of Oracle. **06**
- B. What is the importance of System global area in detail. **05**
- C. What is a segment? **03**

- Q. 3. Do as directed:** [14]
- A. Explain various aggregate functions of SQL in detail. How to use group by clause with aggregate functions. 06
- OR**
- A. Explain types of cursor in detail with an example. 06
- B. How to join two tables? Explain outer join and inner join with an example. 05
- C. What is a self-join? 03
- Q. 4. Do as directed:** [14]
- A. Explain various steps to create user, manage user and set password. 06
- B. What is referential integrity constraint? Can we have two referential key in one table? Explain with example. 05
- C. What is resource quota? 03
- OR**
- C. How to perform cold backup in Oracle? 03
- Q. 5. Do as directed:** [14]
- A. Explain various commands to grant privileges to users? 06
- B. Assume that following tables are created. 05
- [BloodBankMaster Table]: BloodBankId, BloodBankName
- [DonorMaster Table]: DonorId, DonorName, BloodGroup, ContactNo, Gender, Age, BloodBankId
- Create a procedure to display all details of donor of a blood group and below particular Age.
- OR**
- B. Write in brief about the Export utility. 05
- C. Write complete syntax of Select command. 03