

RAN-2411001003033001

B.Sc. (Comp. Sci.) NCF-NCP (Sem.-III) Examination March - 2026
Major-3-Relational Database Management System (Paper 305)

Time: 1 Hours]**[Total Marks: 25**

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવર્તી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book	Seat No.: <table border="1" style="width: 100%; height: 30px; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table> Student's Signature						

- Q-1. Answer the following :—** **08**
- A) Answer any four.** **04**
- i) Which of the following reduces data redundancy?

a) File System	b) Database System
c) Data Dictionary	d) Cache Memory
 - ii) In an ER diagram, a diamond shape represents:

a) Entity	b) Attribute
c) Relationship	d) Key
 - iii) Which normal form removes partial dependency?

a) 1NF	b) 2NF
c) 3NF	d) BCNF
 - iv) Which PL/SQL program unit is used to perform a specific task and return a single value?

a) Procedure	b) Function
c) Trigger	d) Package
 - v) A set of attributes that uniquely identifies a tuple in a relation is called:

a) Foreign Key	b) Candidate Key
c) Super Key	d) Primary Key
- B) Answer any four :—** **04**
- i) Define database system and its importance.
 - ii) What is a candidate key? Give example.
 - iii) Explain the concept of data redundancy.
 - iv) What is a weak entity set?
 - v) Define DDL and DML with example.

- Q-2. Answer the following :-** **12**
- A) Draw an E-R diagram for Online Shopping System. **07**
- OR**
- A) Explain different types of SQL joins with examples.
- B) Explain 2nd NF with suitable example. **05**
- Q-3. Answer any one :-** **05**
- A) Discuss the structure of PL/SQL block.
- B) Write a PL/SQL procedure to calculate factorial of a number.
- C) Explain trigger with example.
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