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## III Semester B.C.A. Degree Examination, April/May 2023 (NEP)

LIERAR

# COMPUTER APPLICATION

DSC 7 : Database Management System

Time : 21/2 Hours

Max. Marks: 60

DCCA - 301

Instruction : Answer all the Sections.

#### SECTION – A

I. Answer any six questions. Each question carries two marks : (6×2=12)

- 1) What is DBMS?
- 2) Define DBMS interface.
- 3) Define the terms :
  - i) Entity, ii) Attributes.
- 4) What is entity sets ?
- 5) Define foreign key.
- 6) What is functional dependencies ?
- 7) What is nested sub queries ?
- 8) Differentiate between single user and multi user system.
- Mention the types of database failures.

#### SECTION - B

II. Answer any four questions. Each question carries six marks : (4x6=24)

- 10) Write a note on people associated with database system.
- 11) Explain three schema architecture with neat diagram.
- 12) Explain various types of relationship.
- 13) What is PL/SQL ? List the features of PL/SQL.
- 14) Explain 1NF, 2NF and 3NF with an example.
- 15) Write a note on transition states.

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## SECTION - C

III. Answer any three questions. Each question carries eight marks :	(3×8=24)
16) a) Write a note on database system applications.	4
b) What is data independence ? Explain its types.	4
17) What is ER diagram ? Draw a ER diagram for university database	e. 8
18) Write a note on basic relational algebra operations.	8
19) a) Explain any two aggregate functions with example.	4
b) Write a note on anomalies in relational database design.	4
20) a) Write a note on ACID properties.	4
b) Write a note on time stamp ordering.	4

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