

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

# COMPUTER APPLICATION DSC 7: Database Management System

Time: 2½ Hours

Max. Marks: 60

Instruction : Answer all the Sections.

#### SECTION - A

I. Answer any six questions. Each question carries two marks: (6x2=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.
- 9) Mention the types of database failures.

#### SECTION - B

- II. Answer any four questions. Each question carries six marks: (4×6=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.





### SECTION - C C A D E reference III

(3×8=24)	Answer any three questions. Each question carries eight marks:	II. A
4	Write a note on database system applications.	16
4 AC - 214 Ho	b) What is data independence ? Explain its types.	
. 8	7) What is ER diagram? Draw a ER diagram for university database.	17
8	Write a note on basic relational algebra operations.	18
s reward 4	a) Explain any two aggregate functions with example.	19
IsriW (1 4	b) Write a note on anomalies in relational database design.	
4	a) Write a note on ACID properties.	20
4	b) Write a note on time stamp ordering.	

