Roll No. $\square$

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B \& C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B \& C carrying TEN marks each.
4. Select atleast TWO questions from SECTION - B \& C.

## SECTION-A

Q1. Answer briefly :
a) List some popular RDBMS Packages.
b) Use COUNT aggregate function.
c) Explain Domain integrity.
d) Explain the role of DBA in database.
e) What is the other name of Equi Join and where it is used?
f) Syntax for Embedded SQL.
g) Functional Dependency.
h) Database Schema.
i) SQL Example of UPDATE command.
j) Use of GRANT and REVOKE commands.

## SECTION-B

Q2. Explain the Architecture of DBMS with diagram shows different levels of abstraction in detail.

Q3. Differentiate between function and procedure using suitable examples.
Q4. Explain different types of Triggers and write a trigger for salary update.
Q5. What do you understand by authorization, how it's used on different users? Elaborate.

## SECTION-C

Q6. Explain an ER model with suitable example.
Q7. What is Normalization, define and explain first, second and third normal form?
Q8. What are the different concurrency problems discuss in detail?
Q9. What are the different Security issues in database?

# NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student. 

