

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Summer Examination-2018

**Subject Name :** Advanced Database Management System

**Subject Code :** 4TE06ADM1

**Branch:** B.Tech. (IT)

**Semester :** 6

**Date :** 02/05/2018

**Time :** 02:30 To 05:30

**Marks :** 70

### Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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- Q-1**      **Attempt the following questions:**
- a) What is relational database? (01)
  - b) What is trigger? (01)
  - c) What do you mean by logical independence in database? (01)
  - d) What is candidate key? (01)
  - e) What is functional dependency? (01)
  - f) What is the difference between data and information? (01)
  - g) List various TCL commands. (01)
  - h) Write a syntax of GROUP BY command. (01)
  - i) Write a syntax of HAVING clause. (01)
  - j) What is mobile database? (01)
  - k) Write a syntax of ORDER BY command. (01)
  - l) How ltrim() function is used? (01)
  - m) How substring() function is used? (01)
  - n) How locate() function is used? (01)

**Attempt any four questions from Q-2 to Q-8**

- Q-2**      **Attempt all questions**
- a) Attempt following questions (07)
    - 1) What is ON DELETE CASCADE in SQL? Explain clearly with example.
    - 2) Explain UNION and INTERSECTION operation.
  - b) Explain database tuning. (07)
- Q-3**      **Attempt all questions**
- a) Explain like, limit, max, as, avg, min and round commands with suitable example. (07)
  - b) Explain the concept of view in database with suitable example. (07)
- Q-4**      **Attempt all questions**
- a) Explain DML commands with syntax and examples. (07)
  - b) Explain different types of outer join with example. (07)



- Q-5**            **Attempt all questions**
- a) What is Procedure? Explain Procedure with its type in detail with suitable example.            **(07)**
  - b) Explain Query optimization process.            **(07)**
- Q-6**            **Attempt all questions**
- a) Attempt following questions            **(07)**
    - 1) Explain Web database.
    - 2) Give the differences between Structured data and Unstructured data
  - b) Explain distributed database.            **(07)**
- Q-7**            **Attempt all questions**
- a) Attempt following questions            **(07)**
    - 1) Explain Self Join with example.
    - 2) Give the differences between SQL and PL/SQL.
  - b) Design PL/SQL Function that computes and returns the maximum from given two values.            **(07)**
- Q-8**            **Attempt all questions**
- a) Explain E-R Diagram. Draw E-R diagram for hospital management system.            **(07)**
  - b) Explain Integrity Constraints and Referential Integrity Constraint with suitable example.            **(07)**

