

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)**

