

# C.U.SHAH UNIVERSITY

## Summer Examination-2017

Subject Name: Advanced Database Management

Subject Code: 5CS02WDB1

Branch: M.Sc.I.T (WebTech)

Semester: 2

Date: 12/05/2017

Time: 02:00 To 05:00

Marks: 70

### Instructions:

- (1) Use of Programmable calculator and 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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### SECTION – I

- Q-1** Define the Following terms: (07)
- a. Constraint (01)
  - b. Sub query (01)
  - c. View (01)
  - d. Join (01)
  - e. Synonym (01)
  - f. Set operator (01)
  - g. Like operator (01)
- Q-2** Attempt all questions (14)
- (a) Explain E.F.Codd's Rule (5)
  - (b) Write a note on data types available in Oracle (5)
  - (c) Explain group by having clause with an example. (4)
- OR**
- Q-2** Differentiate between: (14)
- (a) SQL and SQL \* Plus (5)
  - (b) DBMS and RDBMS (5)
  - (c) Char and Varchar (4)
- Q-3** Attempt all questions (14)
- (a) Write a note on normalization. (7)
  - (b) Explain sequence with example. (7)
- OR**
- Q-3** (a) Create student table with following fields (rno,name,m1,m2,m3,tot,per) and teacher table with following fields (tno,rno,tname,texp,tsal,tstream) :



- a) Write the query for creating both student and teacher table. (01)
- b) Display student name who is taught by teacher having more than 10 years experience (01)
- c) Display teacher table details according to experience is descending order. (01)
- d) Display teacher name who is teaching student obtaining 'Distinction grade' (01)
- e) Add new field expertise to teacher table. (02)
- f) Update student name to 'atul' who is getting less than 40 per and name beginning with 'p' character (01)
- (b) Explain any seven string functions with examples (07)

## SECTION – II

**Q-4 Define the Following terms: (07)**

- a. Backup (01)
- b. Varray (01)
- c. Segment (01)
- d. Block (01)
- e. Nested table (01)
- f. Redo log file (01)
- g. Import (01)

**Q-5 Differentiate between: (14)**

- (a) %Type and % Rowtype (5)
- (b) Implicit cursor and Explicit cursor (5)
- (c) Procedure and Function (4)

**OR**

- Q-5** (a) Write a note of PL/SQL block structure. (5)
- (b) Explain Grant and Revoke command with example. (5)
- (c) Write a note on looping statement. (4)

**Q-6 Attempt all questions (14)**

- (a) What is trigger? Explain different types of trigger. (7)
- (b) What is exception handling? Explain different types of exceptions in oracle. (7)

**OR**

**Q-6 Attempt all Questions (7)**

- (a) Write PL/SQL block to find maximum number from three given numbers. (7)
- (b) Write procedure to find grade of student and also display marks, total, percentage and grade. (7)

