

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name : Advanced Database Management System

Subject Code : 4CS06IDB1

Branch: B.Sc.I.T.

Semester : 6

Date : 20/04/2019

Time : 10:30 To 01:30

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:

(14)

- 1) The 'Relational Model' of database was introduced by:**
a) Dr. E. F. Codd b) Dr. K. J. Morgan c) Dr. K. V. Roger d) Encapsulation
- 2) SQL commands can be written in mixed case (Upper Case + Lower Case)**
a) True b) False c) Always Capital d) Always Small
- 3) The aggregate function is:**
a) Min b) Count c) Sum d) All of above
- 4) Which is the DML Statements?**
a) Create User b) Create Table c) Create Database d) Update
- 5) Total number of Foreign Key in the table:**
a) 0 (Zero) b) One c) More than one d) All of above
- 6) The constraint that can only be defined at column level only is:**
a) UNIQUE b) NOT NULL c) CHECK d) All of above
- 7) Two copies of same table is created in memory if the join is:**
a) Cross Join b) Left Outer Join c) Self Join d) Full Outer Join
- 8) The Sub Query appears usually:**
a) Inside WHERE clause b) Inside SELECT clause
c) Inside FROM clause d) None of above
- 9) The sequence object always generates:**
a) Numerical Values b) Character Value c) Data Value d) Any Value
- 10) Role can be assigned with:**
a) System Privileges b) Object Privileges c) Other Roles d) All of above
- 11) Which part of PL/SQL block is Mandatory?**
a) Declaration Section b) Execution Section
c) Exception Section d) All of above
- 12) The parameters of Procedure / Function may be of type:**
a) IN type b) OUT type c) IN OUT type d) All of above



13) Which type of trigger will be fired first – when event occurs?

- a) Before – Statement Level
- b) Before – Row Level
- c) Both of above
- d) Cannot Say

14) Exception can be raised using:

- a) Raise Statement
- b) Raise_Application_Error
- c) None of above
- d) Both of above

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

Q-2 Attempt all questions: (14)

- a) Explain any seven Dr. E. F. Codd's rules in DBMS (7)
- b) Explain normalization? Explain 1NF and 2NF with example. (7)

Q-3 Attempt all questions: (14)

- a) Explain any five aggregate functions. (5)
- b) Explain any five string functions (5)
- c) Differentiate: SQL VS SQL*PLUS. (4)

Q-4 Attempt all questions: (14)

- a) Discuss view with suitable example. (5)
- b) Explain DML Locks and DDL Locks. (5)
- c) Explain Transaction control commands. (4)

Q-5 Attempt all questions: (14)

- a) What is Index? Explain its types. (7)
- b) Write a brief note on Cursor. (7)

Q-6 Attempt all questions: (14)

- a) How to create a procedure? Explain procedure with syntax and example. (7)
- b) Explain creating objects and creating Type in PL/SQL with example (7)

Q-7 Attempt all questions: (14)

- a) Explain PL/SQL table with example. (5)
- b) Discuss Trigger with its types. (5)
- c) Explain Nested Tables with example. (4)

Q-8 Attempt all questions: (14)

- a) Explain Oracle Instance Architecture. (5)
- b) What is Net 8? Explain its features. (5)
- c) What is Backup? List and Explain different types of backup. (4)

