C.U.SHAH UNIVERSITY

WADHWAN CITY
University (Winter) Examination -2013

Course Name :M.Sc(IT) Sem-I   Subject Name: -Database Management System Concept & Tools   Marks :70
Duration :- 2:30 Hours   **Date : 30/12/2013**

Instructions:-
(1) Attempt all Questions of both sections in same answer book / Supplementary.
(2) Use of Programmable calculator & any other electronic instrument is prohibited.
(3) Instructions written on main answer Book are strictly to be obeyed.
(4) Draw neat diagrams & figures (If necessary) at right places.
(5) Assume suitable & Perfect data if needed.

SECTION -1

Q.1   **Answer the following Questions**   [7]
1.   What is DBMS?
2. What is Schema?
3.   Which are the types of Database System?
4.   What is generalization?
5. What is aggregation?
6.   What is foreign key?
7. What is entity set?

Q.2   **Answer the following Questions**
1. Discuss Query Processor.   [5]
2. Write a note on generalization.   [5]
3. Explain any two types of database system.   [4]

OR

Q.2   **Answer the following Questions**
1. What is key discuss types of keys?   [5]
2. Write a note on aggregation?   [5]
3. Write a short note on ERD.   [4]

Q.3   **Answer the following Questions**
1. Write a note on storage manager.   [7]
2. Write note on database users.   [7]

OR

Q.3   **Answer the following Questions**
1. Define the responsibilities of DBA.   [7]
2. Draw and discuss database Architecture.   [7]

SECTION -II

Q.4   **Answer the following Questions**   [7]
1. What is normalization?
2. What is strong entity?
3. What is functional dependency?
4. What is Join?
5. Write down Full name of ACID
6. What is Decomposition?
7. Write down Full name of DCL & TCL.

Q.5   **Answer the following Questions**
1. Write a short note on anomalies in database.   [5]
2. What is BCNF ?Explain in Brief.   [5]
3. Write a note on selection, Projection for relational algebra operation   [4]

OR

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Q.5   **Answer the following Questions**
      1. Write a note on canonical cover.   [5]
      2. Discuss 2NF with example.   [5]
      3. Discuss Rename & Join Algebra operation with example.   [4]

Q.6   **Answer the following Questions**
      1. Brief note on CODD Rules.   [7]
      2. Explain the various command for TCL   [7]

OR

Q.6   **Answer the following Questions**
      1. Discuss DDL & DML with example.   [7]
      2. What is View ? Write a short note on views.   [7]

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