Kolhan university, Chaibasa

Year: - 2012 I.T. (6a)

(Based on remember) Answer any five Questions.

- 1. (a) What is meant by Data Independence? State its importance in data technology.
 - (b)What is schema and sub-schema? Why should a subschema be independent of schema?
- 2. (a) What do you understand by Data models? Which is the most preferred data model and why?
 - (b) Distinguish between primary key and candidate key.
- 3. Draw an E-R diagram for a bank where a customer can open many accounts in many branches and an account can belong to more then one customer (joint account). Also reduce the above E-R diagram to table.
- 4. What do you understand by deadlock? How deadlock can be prevented?
- 5. What are the problems caused by data redundancies? Can data redundancies be completely removed when the database approach is used?
- 6. (a) List any five major function performed by a DBA?
 - (b) What is functional and multi-valued dependency?
- 7. (a) What are the major components of SQL? Write syntax for creating a table, inserting values in the table and selecting.use suitable examples.
 - (b) Discuss the various types of "joins" supported in SQL.
- 8. Write short notes on any four:
 - (i) PL/SQL (ii) DDL (iii) TRIGGERS (iv) DCL (v) DML
 - (vi) Serializeability