Self-Check Questions

1. Which of the following statements is true:
   a. Normal forms can be derived by inspecting the data in various tables
   b. Normal forms speed up all queries
   c. Normal forms reduce the risk of inconsistent update of replicated data-items
   d. Normal forms completely eliminate all redundant storage of data-items.

2. First normal form prohibits the occurrence of
   a. Null values in a column
   b. Repeating group in a table
   c. Multiple candidate keys in a table
   d. Multiple foreign keys in a table

3. If all non-keys in a table depend on the key, the whole key and nothing but the key, then the table is in
   a. 1NF, but not in 2NF
   b. 2NF, but not in 3NF
   c. 3NF
   d. BCNF

4. When a part of a key determines a non-key, it is a violation of
   a. First Normal Form
   b. Second Normal Form
   c. BCNF
   d. All of the above

5. Normal forms can be used with
   a. Relational data model
   b. Entity Relationship Model
   c. UML
   d. All of the above

Discussion Questions