QUIZ 1 – INTRODUCTION TO DATABASE

1. Which of the following statements **DOES NOT** apply to relational databases?

   - ◉ Relational databases have a strong procedural orientation
   - ○ Tables are one of the basic components of relational databases
   - ○ Relational databases are simple to understand
   - ○ Relational databases have a strong mathematical foundation

2. Which of the following is NOT TRUE of a DBMS?

   - ○ It provides efficient storage and retrieval of data.
   - ○ It has evolved over the years into a fairly simple set of tools that are relatively easy to master.
   - ○ Marketplace demands and product innovation have led to the development of a broad range of features.
   - ◉ None of the above.

3. Which statement is NOT TRUE of the Three Schema Architecture?

   - ○ It is an architecture for compartmentalising database descriptions.
   - ○ Its details have been widely adopted in third- and fourth-generation DBMSs.
   - ◉ None of the above.
   - ○ It is an official standard of the American Standards Institute (ANSI).

4. Which one of the following indicates poor data quality?

   - ○ The business rule that an employee must belong to a department is enforced by the database.
   - ◉ The same supplier is shown with two different addresses in two parts of the database.
   - ○ Two similar items have two different prices in the supermarket and in the database.
   - ○ New prices in a supermarket are updated in a timely fashion in the database.

5. Which of the following IS NOT a phase of database design?

   - ○ Physical Database Design
   - ○ Logical Database Design
   - ○ Conceptual Database Design
   - ◉ Application Interface Design

6. Entity Relationship Diagrams (ERD) are output from the following database design phase:

   ○ Logical Database Design

   ○ Distributed Database Design

   ⦿ Conceptual Database Design

   ○ Physical Database Design

7. Which of the following decisions would be part of Physical Database Design?

   ○ Student data and enrollment data will be stored in two different tables.

   ○ Student data and enrolment data will be stored in two different tables at two different locations.

   ○ The Social Security number will be chosen as the primary key of the Student table.

   ⦿ An index file will be created on the last name of students in the Student table.

8. Logical database design takes place during:

   ○ Systems implementation

   ⦿ Systems design

   ○ Systems design and system implementation

   ○ Systems analysis

9. The information systems development process is tightly integrated, and as such cannot be split between database development and applications development.

   ○ True

   ⦿ False

10. Most commercial DBMS systems support database definition, manipulation and tuning, as well as providing graphical application development tools and a procedural language interface.

    ⦿ True

    ○ False