

# Chapter 1: Database Management System

## Multiple Choice Questions

**1) Data is best defined as:**

- A. Processed and meaningful facts      B. Raw and unprocessed facts  
C. Organized information                  D. Knowledge

**2) Which of the following correctly defines a database?**

- A. A collection of unrelated files              B. A collection of programs  
C. An organized collection of related data      D. A single table

**3) Which of the following is a Database Management System (DBMS)?**

- A. MS Word      B. MS Excel      C. Oracle      D. Windows

**4) Which key uniquely identifies each record in a table?**

- A. Foreign key      B. Primary key      C. Alternate key      D. Composite key

**5) Which of the following is a candidate key?**

- A. A key that cannot uniquely identify records  
B. Any attribute that can uniquely identify records  
C. A key chosen as foreign key  
D. A duplicate key

**6) One major advantage of using DBMS is:**

- A. Increased data redundancy                  B. Better data sharing and security  
C. Higher chances of data inconsistency      D. Manual data processing

**7) Which SQL command is used to define the structure of a table?**

- A. INSERT      B. UPDATE      C. CREATE      D. SELECT

**8) Which of the following belongs to DML?**

- A. CREATE      B. DROP      C. INSERT      D. ALTER

**9) The hierarchical database model is based on:**

- A. Many-to-many relationship                  B. Table structure  
C. Tree structure                                  D. Graph structure

**10) In relational database model, data is stored in the form of:**

- A. Files      B. Tables (relations)      C. Trees      D. Objects

**11) The main objective of normalization is to:**

- A. Increase data duplication                  B. Reduce data redundancy and inconsistency  
C. Increase storage requirement              D. Improve hardware performance

**12) Second Normal Form (2NF) eliminates:**

- A. Transitive dependency      B. Partial dependency  
C. Multivalued dependency      D. Functional dependency

**13) A centralized database system means:**

- A. Data stored at multiple sites                  B. Data stored at a single location  
C. Data stored in cloud only                      D. Data stored in personal computers

**14) Which of the following is an advantage of distributed database?**

- A. Single point of failure                          B. Low reliability  
C. Better availability and reliability              D. Difficult data sharing

**15) Database security mainly ensures:**

- A. Data duplication                                  B. Unauthorized access to data  
C. Protection of data from unauthorized access      D. Deletion of data