Quiz # 1

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Time: 20 minutes   **Marks:** 10

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Solve the Following MCQs

Question # 1: What is a Database Management System (DBMS)?   (CLO-1)

a. A programming language used for writing applications

b. A software system that facilitates the creation, management, and use of databases ✓

c. A hardware component used to store data

d. A network system used to connect multiple databases

Question # 2: A Database Management System (DBMS) includes many operations for managing data. Which of the following are the three main operations of a DBMS?   (CLO-2)

a. Storing, Retrieving, and Deleting data

b. Defining, Constructing, and Manipulating data ✓

c. Writing, Deleting, and Compiling data

d. Sorting, Indexing, and Searching data

Question # 3: One of the major characteristics of the DBMS approach is its self-describing nature. Which of the following statements best describes this characteristic?   (CLO-1)

a. It allows changes to data structures and storage organization without needing to modify DBMS access programs

b. It hides storage details and presents users with a conceptual view of the database

c. It stores the description or metadata describing a particular database ✓

d. It allows each user to see a different view of the database

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Question # 4: What is Data Abstraction in a Database Management System (DBMS)? **(CLO-1)**

a. A process that stores data in multiple locations for redundancy

b. A technique to hide storage details and present users with a conceptual view of the database ✓

c. A method of encrypting data to ensure security

d. A way of representing raw data without any model structure

Question # 5: List **two** advantages of using the Database Approach and briefly explain why they are superior to the traditional file system in that aspect. **(CLO-2)**

Advantages are. Redundancy control, Database allow minimizes duplicate data and maintainance efforts. Another advantage is that it doesn't allow everyone to access and interact with it, Only people with access. ✓

Database Approach is superior as it provides a system that allows interaction ~~of appl~~ and sharing of data with other applications, whereas in traditional file system, applications are seperated.

Question # 6: Draw a simple example of a database with two tables. Show the tables' names, columns, and some sample entries for each table. **(CLO-1)**

Student No

Roll no S.no	Roll no.	Name.	course1	course2	...
1	BSSE23058	Zunaira	SETIOO	SETIO2
2	BSSE23026	Eashal	SETIO2	SETIO4

Courses

S.no	Code ID	Name of course	Students enrolled.
1	SETIOO	Database system.	BSSE23058
2	SETIO2	Linear Algebra	BSSE23058, BSSE23026.

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