

Faculty of Computer Applications & Information Technology
BCA Programme
SUBJECT: 210301303 DBMS-II
BCA Sem – III
Unit – 4 Assignment

Fill in the Blanks

1. An _____ Database Management System (ODBMS) stores data in the form of objects, which are instances of classes.
2. Geographic DBMS often include spatial extensions for _____ data management.
3. _____ DBMS handle a variety of media types, including text, images, audio, and video.
4. Engineering DBMS (EDBMS) is designed to manage complex data in _____ applications.
5. A Decision Support DBMS (DDBMS) often includes a _____ warehouse to store historical and current data.
6. _____ DBMS run across multiple processors or CPUs to execute queries in parallel.
7. In a Distributed Database, data is spread over multiple _____ or computers across a network.
8. Mobile databases allow data to be accessed _____ using mobile devices.

True or False

1. An Object-Oriented Database Management System (ODBMS) uses a relational data model to store data.
2. Geographic DBMS are used primarily for handling text-based data.
3. Multimedia databases are used to store and manage different types of media, such as text, audio, and video.
4. Engineering DBMS often include features for managing CAD models and technical documentation.
5. Decision Support DBMS (DDBMS) typically do not include data warehousing capabilities.
6. Parallel DBMS can operate in shared memory, shared disk, and shared nothing architectures.
7. Distributed databases are confined to a single physical location for data management.
8. Mobile databases are less secure compared to conventional stationary databases.

Answer the following in detail:

1. Describe the key components of an Object-Oriented Database Model.
2. Explain what a Geographic DBMS is and what types of data it manages.
3. What types of media are handled by a Multimedia Database? List and describe the types.
4. What are the key features of an Engineering Database Management System (EDBMS)?
5. Explain the role of data warehousing in a Decision Support DBMS.
6. What are the main components of a Mobile Database System?
7. Explain the three architectural designs of Parallel DBMS.
8. Define a Distributed Database and explain its primary characteristics.