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IV/IV B.Tech. (Regular/Supplementary) DEGREE EXAMINATION**July, 2021****Eight Semester****Time: Three Hours****Computer Science & Engineering****Advanced Databases Management Systems****Maximum: 60 Marks***Answer ALL Questions from PART-A.**(12X1 = 12 Marks)**Answer ANY FOUR questions from PART-B.**(4X12=48 Marks)***Part - A**

1. Answer all questions (12X1=12 Marks)
- Compare Entity Type and Entity Set.
 - List out transaction operations.
 - What is meant by lossless decomposition?
 - Define Distributed database system.
 - What is meant by distribution transference?
 - Differentiate homogeneous and heterogeneous distributed databases.
 - What is ODL?
 - What is the use of EXTENT?
 - Define ODM.
 - What is data mining?
 - Define deductive database.
 - What is Client and Server?

Part - B

- What is concurrency control? With suitable examples explain various concurrency problems. 6M
 - Define normalization. Explain in detail about various normal forms. 6M
- Discuss in detail about different types of failures in DBMS. 6M
 - Describe the Query optimization concept. 6M
- Explain about the advantages of distributed database system 6M
 - Describe the concept of fragmentation. 6M
- Draw and explain Distributed Database System architecture. 6M
 - Write short notes on distributed commit protocols. 6M
- Differentiate between RDBMS and OODBMS. 4M
 - Explain in detail about persistence, OQL and its features. 8M
- What is ODMG? Explain its concept. 6M
 - Explain how the object oriented database features implemented in POSTGRES 6M
- Explain different tiers of client server data model along with their architectures. 12M
- Write short notes 12M
 - Multimedia Databases
 - Dataware house and its techniques.

