14CS803(C)

**Hall Ticket Number:**

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

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| 1. | Answer all questions | | (12X1=12 Marks) | |
|  | a) | Compare Entity Type and Entity Set. | |  |
|  | b) | List out transaction operations. | |  |
|  | c) | What is meant by lossless decomposition? | |  |
|  | d) | Define Distributed database system. | |  |
|  | e) | What is meant by distribution transferency? | |  |
|  | f) | Differentiate homogeneous and heterogeneous distributed databases. | |  |
|  | g) | What is ODL? | |  |
|  | h) | What is the use of EXTENT? | |  |
|  | i) | Define ODM. | |  |
|  | j) | What is data mining? | |  |
|  | k) | Define deductive database. | |  |
|  | l) | What is Client and Server? | |  |
| **Part - B** | | | | |
| 2. | a) | What is concurrency control? With suitable examples explain various concurrency problems. | | 6M |
|  | b) | Define normalization. Explain in detail about various normal forms. | | 6M |
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| 3. | a) | Discuss in detail about different types of failures in DBMS. | | 6M |
|  | b) | Describe the Query optimization concept. | | 6M |
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| 4. | a) | Explain about the advantages of distributed database system | | 6M |
|  | b) | Describe the concept of fragmentation. | | 6M |
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| 5. | a) | Draw and explain Distributed Database System architecture. | | 6M |
|  | b) | Write short notes on distributed commit protocols. | | 6M |
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| 6. | a) | Differentiate between RDBMS and OODBMS. | | 4M |
|  | b) | Explain in detail about persistence, OQL and its features. | | 8M |
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| 7. | a) | What is ODMG? Explain its concept. | | 6M |
|  | b) | Explain how the object oriented database features implemented in POSTGRES | | 6M |
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| 8. |  | Explain different tiers of client server data model along with their architectures. | | 12M |
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| 9. | Write short notes   1. Multimedia Databases ii) Dataware house and its techniques. | | | 12M |

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