

Code No: **R4105D**

R10

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018

**DISTRIBUTED DATABASES
(Computer Science and Engineering)**

Time: 3 hours

Max. Marks: 75

**Answer any FIVE Questions
All Questions carry equal marks**

- 1 a) Discuss briefly about the centralized DBMSs with examples. [8]
b) Mention the advantages and disadvantages of distributed DBMS. [7]
- 2 a) How to translate global queries to fragment queries? Explain. [8]
b) Discuss the following:
i. Distributed Grouping
ii. Aggregate Function Evaluation [7]
- 3 a) Discuss the framework for query optimization. [8]
b) Explain join queries with suitable examples using SQL statements. [7]
- 4 a) Explain briefly transaction management. [8]
b) Discuss the architectural aspects of distributed transactions. [7]
- 5 a) Write concurrency control mechanisms with suitable examples. [8]
b) Explain relaxed concurrency control. [7]
- 6 a) Explain one scheme of distributed deadlock detection and recovery. [8]
b) Explain the phases of query processing in distributed database. [7]
- 7 Explain the following:
i. Cache consistency object management
ii. Query processing issues
iii. Pointer swizzling [15]
- 8 a) Discuss different query optimization issues. [8]
b) Explain query processing layers in distributed multi-DBMSs. [7]