**Unit-2 Parallel and Distributed Databases**

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| **Sr. No.** | **Question** | **Mark** |
| 1 | Draw and explain physical architecture for parallel databases systems | 8 |
| 2 | Explain Semi joins. | 8 |
| 3 | List and explain the different partitioning techniques for I/O parallelism in Distributed databases | 8 |
| 4 | Explain Intra operation parallelism using range partitioning sort | 8 |
| 5 | Explain 2-phase commit protocol. | 8 |
| 6 | Explain different locking protocols used for concurrency control in distributed databases. | 8 |
| 7 | Explain followings w.r.t. parallel join :  Partitioned join ii) Fragment-and-replicate join | 8 |
| 8 | Explain Replication in distributed database. | 7 |
| 9 | Explain in detail Shared Memory Architecture | 7 |
| 10 | How will you do Data Fragmentation in distributed database system. | 8 |
| 11 | What is speed up and scale up? Explain the importance of linearity in  Both with appropriate illustrations. | 8 |
| 12 | Describe Parallelizing individual operations | 7 |
| 13 | Explain client server architecture | 8 |