1. Please distinguish between batch processing and on-line processing. (10%)

2. Please explain Simplex, Half Duplex, and Duplex. (10%)

3. Please distinguish between centralized processing and distributed processing. (10%)

4. What is client/server computing? (5%) What is peer-to-peer computing? (5%)

5. Please tell the differences among hierarchical, network, and relational DBMS. (10%)

6. Please draw to show the ways of distributing a database. (10%)

7. Please describe the components of a database management. (10%)

8. What is the relationship between data warehouse and data mart? (10%)

9. Please explain the advantages and disadvantages of the three most common topologies of network. (10%)

10. Please give a brief example to show the features of hypermedia database. (10%)