

(50 points – 5 points each)

1. What is the difference between controlled and uncontrolled redundancy?
2. Give 2 or more examples of systems in which it may make sense to use traditional file processing instead of a database approach. Explain why you chose these systems.
3. This chapter has described several major advantages of a database system. What are two disadvantages?
4. List four to six major steps that you would take in setting up a database for a particular enterprise.
5. List at least 3 different entities that a university would maintain, beyond those listed in the chapter.
6. Explain the concept of physical data independence and its importance in database systems.
7. What are the main functions of a database administrator?
8. Explain the difference between two-tier and three-tier architectures. Why would you use one over the other?
9. Why are many organizations using object-oriented databases instead of relational ones?
10. Define the following terms:
  - a. Atomicity
  - b. Concurrency control
  - c. DBMS
  - d. Metadata
  - e. Schema