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### Solution guidelines

- 1) a) concept of distributed serializability is expected.  
b) objectives should be stated clearly.  
c) diagram of 3PC state diagram, with short explanation is expected.  
d) different types of fragmentation in ddb is expected.
- 2) a) Two phase commit protocol with diagram, explanation is expected.  
b) architecture diagram with short explanation is expected.
- 3) a) different types of locking-based protocols with short explanation is expected.  
b) explanation with example is expected.
- 4) two examples with correctness rules are expected.
- 5) a) Distributed deadlock prevention techniques are expected.  
b) DTD schema or XML schema is expected.
- 6) notes on any two is expected.