

Student's name:

Class:

**Class Exercises**  
**Module: Distributed Systems**  
**Chapter 1: Overview of Distributed Systems**

Question 1: What is the role of middleware in a distributed system?

Question 2: Explain what is meant by (distribution) transparency, and give examples of different types of transparency.

Question 3: Why is it sometimes so hard to hide the occurrence and recovery from failures in a distributed system?

Question 4: Why is it not always a good idea to aim at implementing the highest degree of transparency possible?

Question 5: What is an open distributed system and what benefits does openness provide?

Question 6: Describe precisely what is meant by a scalable system.

Question 7: Scalability can be achieved by applying different techniques. What are these techniques?