Relevance for the written exam

Exercises
• All exercises are necessary, except implementation exercises

Chapter 1: Introduction
• Middleware approaches: RPC/RMI (Slide 26 – 49) – but: no source code necessary

Chapter 2: Processes, Threads, Agents
• Not necessary

Chapter 3: Naming
• Naming (Slide 13 – 26), Directory Services (Slide 28 – 35), Location Approaches (Slide 47 – 57), Reference Counting (Slide 58 - 63)

Chapter 4: Synchronisation
• Synchronisation Algorithms (Slide 9 – 22)

Chapter 5: Coordination and Agreement
• Coordination Algorithms (Slide 2 – 12), Election (Slide 16 – 20)

Chapter 6: Transactions
• Basic principles (Slide 7 – 11), Concurrency Control (Slide 17 - 26), Locking (Slide 28 – 33, 42 - 52), Timestamp Ordering (Slide 53 – 57), Two Phase Commit (Slide 71 – 73)

Chapter 7: Replication
• Basic principle (Slide 6 – 7), Algorithms (Slide 13, 14, 16 – 24, 31 – 34, 36 – 39)

Chapter 8: Middleware
• CORBA (Slide 29 – 44, 55 – 63, 65 – 70, 76 – 78), Web Services (116 – 134, 140 – 142, 146 - 152)

There will be no implementation exercises, i.e. no programs have to be written in C++, Java, etc.