1997 Paper 4 Question 2

Concurrent Systems

Explain the concept of serialisability of access to objects by concurrent processes. Consider the cases where operations that are meaningful to an application involve (a) only a single object and (b) related operations on a number of objects. Explore the cases where (c) the objects exist only in the main memory of a single computer for the duration of a program execution and (d) the objects exist in persistent store independent of program execution.   [20 marks]