

IV B.Tech I Semester Regular Examinations, November 2005
DISTRIBUTED SYSTEMS
(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) What are some of the common types of incompatibilities encountered in heterogeneous distributed systems?
(b) What are the common issues with which the designer of heterogeneous distributed system must deal? [8+8]
2. Describe the functionalities of the different layers of the ATM protocol reference model. [16]
3. (a) Explain Nested transactions.
(b) Explain private workspace method of transactions implementation. [8+8]
4. (a) Discuss the issues that has to be considered in allocating processors to processes in a distributed system.
(b) Discuss the hierarchial, heuristic and the bidding algorithm for processor allocation. [8+8]
5. (a) Explain about various update protocols used with replicated files
(b) What are the problems associated with stateful server? Give two examples where it might be necessary to use stateful servers? [10+6]
6. (a) Explain **NUMA** Multiprocessor.
(b) Explain about sequential consistency model. [10+6]
7. Discuss the process scheduling of Mach OS in multiprocessor system ? [16]
8. Discuss the directory service, time service and security service of DCE. [16]
