

40921



12. a) i) Discuss in detail about producer-consumer synchronization. (8)
ii) Write a simple semaphore to sent a message. (8)
(OR)
- b) i) List out the approaches and tools for detecting data races. (8)
ii) Write a short notes on deadlocks, livelocks and named pipes. (8)
13. a) Elaborate OpenMP execution model and memory model in detail. (8)
(OR)
- b) Write an example program for shared memory programming with pthread. (8)
14. a) i) Explain loop handling in detail. (8)
ii) Describe about MPI Program execution with example. (8)
(OR)
- b) Explain the Virtual memory in detail. (8)
15. a) i) Describe collective vs. point to point communication. (8)
ii) Describe the Parallelizing the tree-search program using OpenMP. (8)
(OR)
- b) Explain about tree search with Pseudo-code for a recursive solution to TSP using depth-first search. (8)

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