



12. (a) Explain the Code for shared memory using Pthreads.

Or

(b) Explain the Code of message passing systems using MPI.

13. (a) Explain the Issues in Shared Memory Systems.

Or

(b) Explain in detail about the pseudocode for recursive solution and non recursive solution to TSP using depth first search.

14. (a) How can we decide which API, MPI, Pthreads, or OpenMP is best for our application?

Or

(b) Differentiate Collective and Point-to-Point Communication and Draw the architecture for tree structured Communication.

15. (a) Explain in detail about Patterns for parallel programming and OPL.

Or

(b) Explain in detail about the Challenges to Parallel Programming.

PART C — (1 × 15 = 15 marks)

16. (a) Explain with program for point-to-point communication and collective communication.

Or

(b) Write the tree search program both in OpenMp and MPI.