

University of Delhi

Master of Computer Applications

MCAC402: Parallel and Distributed Computing

Time: 1 Hours

Max Marks: 15

Instructions: All questions are compulsory

1. The caller process of an RPC must wait for a reply from the callee process after making a call. Explain how this can actually be done.
2. Why is scalability an important feature in the design of a distributed OS? Discuss the guiding principles for designing a scalable distributed system.
3. What is a Parallel Virtual Machine? Discuss its features and advantages.
4. Differentiate between Threads and Processes. Explain the concept of Thread with basic methods in concurrent programming languages for creation and termination of threads.
5. Why are Array processors called as SIMD array computers? Explain the architecture of SIMD array processor using a block diagram.
6. Explain the algorithm for odd-even transposition using a suitable example.

***** All the Best *****