UNIT-IV Important Questions

1. What are the main parameters used to evaluate the communication performance in cluster-wide systems?
2. How does the Linux TCP/IP stack performance differ when used in cluster computing compared to traditional networking?
3. Describe the role of Active Messages in improving the efficiency of cluster communications.
4. What motivated the early development of Resource Management Systems like the Network Queuing System (NQS)?
5. How do Resource Management Systems manage the assignment and control of computational resources in a cluster?
6. Explain the role and function of CODINE/GRD in managing job and resource distribution in cluster environments.
7. What are the benefits of using process migration in high-performance computing applications on a cluster?
8. Discuss the challenges and solutions provided by the MOSIX system for load balancing in a cluster environment.
9. How does Condor enhance resource management when using idle workstations for computing?
10. How does communication in SMP clusters differ from network-based cluster systems, particularly in terms of performance and complexity?
11. Describe the NICAM user-level communication layer and its advantages for SMP clusters using Myrinet.
12. Explain the implementation and functionality of remote memory operations in NICAM.