



B.Tech. (CSE): Semester VII
Introduction to Distributed & Parallel Computing (CS-401)
Mid Semester Exam

Max-Marks – 30

Time: 2 Hours

Instructions – All questions are compulsory and carry equal marks. Answers must be specifically written.

1. ☒ A. Write down the differences between client-server, three-tier and peer-to-peer models with examples.
☒ B. Write down various applications of distributed computing.

2. ☒ A. How communication takes place in Distributed Systems. Describe the procedure.
☒ B. What do you mean by layered protocols? Briefly explain.

3. ☒ A. What is Flynn's Classical Taxonomy? Explain.
☒ B. Write down the difference between TCP and UDP. Describe the process that follows to establish client-server communication.

4. ☒ A. Describe various parallel computer memory architectures.
☒ B. What are the differences between CPU and GPU? Why is a GPU suitable for image processing?

5. ☒ A. What is multithreading? Describe the life cycle of the Java Thread.
☒ B. What is RMI? How can we create a remote interface? Write code.

6. ☒ A. Describe the working of RPC (Remote Procedure Call).
☒ B. What are the uses of IaaS, PaaS and SaaS perspectives in cloud computing?

SNMP

Thread
Shared Memory