Section A (for odd roll no.)

1. What do you mean by single system image?
2. The terms loosely-coupled system and tightly-coupled system is often used to described distributed computer systems. What is the different between them?
3. What is the difference between a multiprocessor and a multicomputer?
4. How ATM is different from other technology? An ATM system is transmitting cells at the OC-3 rate. Each packet is 48 bytes long, and thus fits into a cell. An interrupt takes 1 μsec. What fraction of the CPU is devoted to interrupt handling? Now repeat this problem for 1024-byte packets.

Section B (for even roll no.)

1. What is the main difference between a distributed operating system and a network operating system?
2. Name two advantages and two disadvantages of distributed systems over centralized ones.
3. Explain working of RPC operations.
4. How parameter passing is done in RPC? Explain how this works in a large distributed system with multiple data representation.