UNIT-II

Chapter 4 : IPC

1. Explain the characteristics of IPC.
2. Compare & Contrast between Synchronous & Asynchronous communication in the context of IPC.
3. Discuss issues relating to datagram communication.
4. Explain Characteristics and issues related to stream communication.
5. Define marshalling and unmarshalling.
6. Define Marshalling. Construct a marshalled form that represents a Organization with instance variable values :{ 'KLSGIT','BELGAUM', 1979, 590008} by using CORBA-CDR & Java Serialization.

UNIT II

Chapter 5: Distributed objects and Remote invocation

1. Explain communication between distributed objects by means of RMI.
2. Explain remote and local invocation with the neat diagrams.
3. Discuss RMI invocation semantics and tabulate failure handling mechanism for each.
4. Define RPC and With neat diagram explain its implementation

UNIT III

DFS

2. Discuss model architecture of distributed file system and its components.
3. With a neat diagram explain the components of file service architecture in brief w. r .t. following; i) Flat File Service ii) Directory Service Iii) Client Module
4. List out file system modules.
5. Sketch the file attributes and record structure.
6. List out the transparencies in file system.
7. List the directory service operation.
8. Describe the characteristics of file system
10. Discuss the distributed file system design requirements.

SECURITY

1. Write the steps of RSA Algorithm. Illustrate with an example given P=3 & Q=11.
2. Analyze the following uses of Cryptography with suitable scenarios. i) Secrecy and integrity ii) Authentication
3. Discuss asymmetric (public/private key pair-based) cryptography technique and how it can be used in supporting security in distributed systems.