**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. With a neat diagram explain the role of Proxy & Skeleton in RMI
4. Explain the fundamental concepts of the distributed object model.
5. Discuss RMI invocation semantics and tabulate failure handling mechanism for each.
6. 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.

4. What is a distributed denial-of-service attack and how does it work?

8. What is the goal of security? List the three broad classes of security threats?

9. What is cryptography? What is the use of it?

10. Write a note on digital signature?