

**(Autonomous)**

**Siddharth Nagar, Narayanavanam Road -517583**

**QUESTION BANK(DESCRIPTIVE)**

Year &Sem: **I M.Tech I –Semester - R19**

Subject:**Distributed Systems ( 19CS5014)**

Course &Branch: **M.tech -CSE**

**UNIT -1**

1. Explain about Resource Sharing and Web in detail? [L1][12M]
2. What is the significance of Distributed System and How it differs from Centralized System? [L2][12M]
3. What is API for Internet protocols and explain it in detail? [L2][12M]
4. Explain in detail Client-Server Communication with examples? [L1][12M]
5. Describe Group Communication? [L2][12M]
6. Explain about Interprocess Communication in UNIX? [L1][12M]
7. Write short notes on
  - a) Examples of Distributed Systems [6M]
  - b) Challenges in Resource sharing [6M]
8. Explain about fundamental issues in system models with examples? [L1][12M]
9. Describe External Data Representation with examples? [L1][12M]
10. Define Marshaling? Explain in detail with suitable examples? [L3][12M]

**UNIT-2**

1. Describe Remote Procedure Calls in details? [L2][12M]
2. Write short notes on
  - a) Events and Notifications [6M]
  - b) Java RMI [6M]
3. Explain about Process and Threads? [L1][12M]
4. How operation system will support in distributed systems? [L3][12M]
5. Explain about Invocation OS architecture? [L1][12M]
6. What Java RMI explain it in detail? [L2][12M]
7. Explain about Communication and OS architecture in detail? [L1][12M]
8. Describe Communication between distributed objects with examples? [L2][12M]
9. How Events and Notifications can be performed in Distributed systems?[L3][12M]

### UNIT -3

1. Explain about File Service Architecture with neat diagram? [L1][12M]
2. Describe Sun Network File System with neat diagram? [L2][12M]
3. Write Short notes on
  - a) Name Services [6M]
  - b) Name services and Domain Name System [6M]
4. Write in detail about Directory Services? [L2][12M]
5. Describe Global Name Service with examples? [L2][12M]
6. Explain about Enhancements and developments in distributed file systems? [L1][12M]
7. Write short notes on
  - a) Global Name Services [6M]
  - b) Domain Name System [6M]
8. Write short notes on
  - a) File Service System [6M]
  - b) Sun Network File System [6M]

### UNIT-4

1. Explain about Domain Name Systems? [L1][12M]
2. Write short notes on
  - a) Clocks, Events, Process States [6M]
  - b) Synchronizing physical Clocks [6M]
3. Describe Logical Time and Logical Clocks? [L2][12M]
4. What is Distributed debugging? Explain it in detail? [L1][12M]
5. Write any two algorithms used in distributed mutual exclusion? [L2][12M]
6. Explain about Elections in distributed Systems? [L1][12M]
7. Write design aims and features of NTP? [L2][12M]
8. Explain snapshot algorithm in Global States? [L1][12M]
9. Write short notes on
  - a) Network Time Protocol [6M]
  - b) Drifting of Clock [6M]
10. Explain in detail about Ring Algorithm in Election? [L1][12M]

## UNIT -5

1. Write about Design issues of Distributed Shared memory? [L2][12M]
2. Explain in detail the COBRA architecture and services provided by CORBA? [L1][12M]
3. Explain design and implementation issues in distributed shared memory? [L1][12M]
4. Describe CORBA with suitable examples? [L2][12M]
5. Write short notes on
  - a) Sequential Consistency [6M]
  - b) Ivy Case Study [6M]
6. Discuss in detail CORBA Services? [L2][12M]
7. Explain Munin Case Study in detail? [L1][12M]
8. Describe CORBA RMI with neat diagrams? [L1][12M]
9. Write short notes on CORBA Case Study? [L2][12M]
10. Write short notes on
  - a) Issues of Distributed Shared memory [6M]
  - b) Services By CORBA [6M]