# VIGNAN’S INSTITUTE OF INFORMATION TECHNOLOGY ::VISAKHAPATNAM

# IV CSE

# II – SEM

**MID – I EXAMINATION QUESTION BANK**

Subject: **DISTRIBUTED SYSTEMS**

Name of the Faculty: Dr. C. Narasimham/ Mr. U. Nanaji

**UNIT-1**

1.  What is distributed system? What are the features of distributed system?

2.   Describe examples of distributed systems

3.   Difference between centralized and distributed system.

4.   What are the advantages of distributed system over the centralized system?

5.   Difference between distributed operating system and network operating system.

6. Discuss the various challenges encountered while designing scalable distributed system ?

7. Define distributed system. Explain the significant consequences of defining distributed

systems?

8. Define transparency. List and explain the different forms of transperancy?

9. Explain the three various examples of distributed system?

10. Explain a) HTTP b) HTML c) URL

**UNIT-2**

1. What is the significance of failure model?
2. Explain in detail the taxonomy that distinguishes between the failures of processes and communication channels?
3. Discuss in brief about the World Wide Web?
4. Explain proxy servers, caches, peer processes?
5. Explain about failure models in detail?
6. Describe in detail about client-server communication?
7. Explain the various types of networks?
8. What are the design issues for distributed system architecture?
9. Explain about software layers in architecture models?
10. Explain one mechanism in interaction model?

**UNIT-3**

1. Write short notes on following characteristics of IPC:

i) Message destinations ii) Reliability iii) Ordering

2. What is IPC? Discuss in brief about sockets?

3. Explain about Group communication?

4. Explain about Inter process communication?

5. Briefly describe about sockets?

6. What is Marshalling? Explain in detail?

7. Explain UDP datagram communication?

8. Explain in detail about Events and notification?

9. Define datagram? What is the use of UDP?

10. Define namespaces and datagram?

**UNIT-4**

1.  Explain Client server model in detail.

2.  Explain RPC in detail

3.  Difference between RPC and ROI

4. Explain ROI and threads in distributed system

5. Write Short notes on Middleware

6. What is RPC?. Write short notes on parameter passing in RPC

7. What is the use of RMI Registry?

8. Why thread is referred as a light white process?

9. Difference between asynchronous RPC and Deferred synchronous RPC.

10. Explain about JAVA RMI ?

Signature of the Faculty HOD - CSE