

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

Siddharth Nagar, Narayanavanam Road – 517583

**QUESTION BANK (DESCRIPTIVE)**

Subject with Code: Distributed Systems (20CS5016)

Course & Branch: M.tech -CSE

Year & Sem: I M.Tech I – Semester

Regulation: R20

UNIT –I**CHARACTIZATION OF DISTRIBUTED SYSTEM**

1	Explain about Resource Sharing and Web in detail?	[L2][CO1]	[12M]
2	Describe Inter Process Communication?	[L6][CO1]	[12M]
3	What is API for Internet protocols and explain it in detail?	[L1][CO1]	[12M]
4	Illustrate Client-Server Communication with examples?	[L3][CO1]	[12M]
5	Describe Group Communication?	[L6][CO1]	[12M]
6	Explain about Interprocess Communication in UNIX?	[L2][CO1]	[12M]
7	a Discuss system models in Distributed Systems	[L2][CO1]	[06M]
	b Determine challenges in Resource sharing	[L3][CO1]	[06M]
8	Explain about fundamental issues in system models with examples?	[L1][CO1]	[12M]
9	Determine External Data Representation with examples?	[L3][CO1]	[12M]
10	Define Marshaling? Explain in detail with suitable examples?	[L1][CO1]	[12M]

UNIT –II
DISTRIBUTED OBJECTS AND REMOTE INVOCATION

1		Describe Remote Procedure Calls in details?	[L6][CO2]	[12M]
2	a	Define Events and Notifications	[L1][CO2]	[06M]
	b	Discuss Java RMI	[L2][CO2]	[06M]
3		Explain about Process and Threads?	[L2][CO2]	[12M]
4		How operation system will support in distributed systems?	[L1][CO2]	[12M]
5		Explain about Invocation OS architecture?	[L2][CO2]	[12M]
6		What Java RMI explain it in detail?	[L1][CO2]	[12M]
7		Explain about Communication and OS architecture in detail?	[L2][CO2]	[12M]
8		Describe Communication between distributed objects with examples?	[L6][CO2]	[12M]
9		How Events and Notifications can be performed in Distributed systems	[L1][CO2]	[12M]
10		Explain briefly about OS Layer	[L2][CO2]	[12M]

UNIT –III
DISTRIBUTED FILE SYSTEM

1	Explain about File Service Architecture with neat diagram?	[L2][CO3]	[12M]
2	Describe Sun Network File System with neat diagram?	[L6][CO3]	[12M]
3	a Discuss Name Services	[L2][CO3]	[06M]
	b Illustrate Name services and Domain Name System	[L3][CO3]	[06M]
4	Write in detail about Directory Services?	[L2][CO3]	[12M]
5	Describe Global Name Service with examples?	[L6][CO3]	[12M]
6	Explain about Enhancements and developments in distributed file systems?	[L2][CO3]	[12M]
7	a Determine Global Name Services	[L3][CO3]	[06M]
	b Describe Domain Name System	[L6][CO3]	[06M]
8	a Explain File Service System	[L2][CO3]	[06M]
	b Identify Sun Network File System	[L3][CO3]	[06M]
9	Write a short notes on casestudy on global name services	[L2][CO3]	[12M]
10	Write a short notes on casestudy on sun network filesystem	[L2][CO3]	[12M]

UNIT –IV
TIME AND GLOBAL STATES

1	Explain about Domain Name Systems?	[L2][CO4]	[12M]
2	a Discuss Briefly Clocks, Events, Process States	[L2][CO4]	[06M]
	b Explain Synchronizing physical Clocks	[L2][CO4]	[06M]
3	Describe Logical Time and Logical Clocks?	[L6][CO4]	[12M]
4	What is Distributed debugging? Explain it in detail?	[L1][CO4]	[12M]
5	Write any two algorithms used in distributed mutual exclusion?	[L2][CO4]	[12M]
6	Explain about Elections in distributed Systems?	[L2][CO4]	[12M]
7	Write design aims and features of NTP?	[L2][CO4]	[12M]
8	Explain snapshot algorithm in Global States?	[L2][CO4]	[12M]
9	a What is Network Time Protocol	[L1][CO4]	[06M]
	b Explain Briefly Drifting of Clock	[L2][CO4]	[06M]
10	Explain in detail about Ring Algorithm in Election?	[L2][CO4]	[12M]

UNIT –V
DISTRIBUTED SHARED MEMORY

1	Write about Design issues of Distributed Shared memory?	[L2][CO5]	[12M]
2	Discuss in detail the COBRA architecture and services Provided by CORBA?	[L2][CO5]	[12M]
3	Explain design and implementation issues in distributed shared memory?	[L2][CO5]	[12M]
4	Describe CORBA with suitable examples?	[L6][CO5]	[12M]
5	a Discuss Sequential Consistency	[L2][CO5]	[06M]
	b Examine Ivy Case Study	[L3][CO5]	[06M]
6	Discuss in detail CORBA Services?	[L2][CO5]	[12M]
7	Explain Munin Case Study in detail?	[L2][CO5]	[12M]
8	Describe CORBA RMI with neat diagrams?	[L6][CO5]	[12M]
9	Write short notes on CORBA Case Study?	[L2][CO5]	[12M]
10	a Explain Issues of Distributed systems	[L2][CO5]	[06M]
	b Define Services By CORBA	[L1][CO5]	[06M]

PREPARED BY:R S Subhasreeviganani