

QUESTION BANK
UNIT-I

1. (a) What is the significance of Distributed System? [05M]
(b) How it differs from Centralized System? [05M]
2. Explain about Group Communication in detail? [10M]
3. What are the different types of Failure Models and explain with examples? [10M]
4. Explain about Interaction Model of Distributed System in detail? [10M]
5. Explain about challenges of Distributed System in detail? [10M]
6. Write about various resources sharing the web in Distributed System? [10M]
7. (a) Explain characteristics of IPC? [05M]
(b) Examples of Distributed System? [05M]
8. Explain UDP Datagram Communication in Distributed System? [10M]
9. (a) Explain goals of Distributed System? [05M]
(b) Write about Middleware? [05M]
10. Write about Client Server communication in Distributed System? [10M]
11. (a) What is Marshaling and data representation? [05M]
(b) Write about COBRA's CDR? [05M]

UNIT-II

1. (a) Explain about interfaces in Distributed System? [05M]
(b) Write short notes on Distributed Objects? [05M]
2. Write about design issues of RMI? [10M]
3. Explain implementation of RMI in detail? [10M]
4. Write about Distributed Object Model? [10M]
5. Explain about Remote Procedure Call model & mechanism? [10M]
6. Explain communication protocols in Remote Procedure Call?? [10M]
7. (a) Explain Distributed Event Notification? [05M]
(b) Write about Java RMI? [05M]
8. Explain about process in distributed environment? [10M]
9. (a) Write about Threads? [05M]
(b) Differentiate the difference between process and Threads? [05M]
10. Write about different types of threads in Distributed System? [10M]

UNIT- III

1. (a) Explain about characteristics of File Systems? [05M]
(b) Write short notes on Distributed File System Requirements? [05M]
2. Write about File Service Architecture in detail? [10M]
3. Explain implementation of SUN Network File System? [10M]
4. (a) Write about Mounting? [5M]
(b) Write short notes on stateless server? [5M]
5. Explain about Name Spaces in detail? [10M]
6. Explain about different types of Name resolution? [10M]
7. (a) Explain Domain Name System? [05M]
(b) Write about Name , address and attributes of Name Services? [05M]
8. Explain about Name Servers in detail? [10M]
9. (a) Write about X.500 Directory Service? [05M]
(b) Write short notes on Lightweight Directory Access Protocol? [05M]
10. Write about Directory Services in Distributed System? [10M]

UNIT- IV

1. (a) Explain about clocks, Event and Process States? [05M]
(b) Why clocks need to be synchronized? [05M]
2. Write about Synchronizing Physical Clocks? [10M]
3. Explain Berkeley Algorithm? [10M]
4. (a) Write about Network Time Protocol? [5M]
(b) Write short notes on Drifting of clock? [5M]
5. Explain about Event Ordering in detail? [10M]
6. Explain about Lamport & vector timestamp? [10M]
7. (a) Explain about global states? [05M]
(b) Write about Distributed Mutual Exclusion? [05M]
8. What is Election? Write the Bully Algorithm? [10M]
9. (a) Write about Central server algorithm in Mutual Exclusion? [05M]
(b) Write about Ring-Based Algorithm in Mutual Exclusion? [05M]
10. Write about Ring Algorithm in Election? [10M]

UNIT- V

1. Explain Implementation approaches to Distributed Shared Memory? [10M]
2. Write about Design issues of Distributed Shared Memory? [10M]
3. Explain Different types of Consistency Models? [10M]
4. (a) Write about Message passing Versus Distributed Shared Memory? [5M]
(b) Write short notes on Web services? [5M]
5. Explain about a dynamic distributed manager Algorithm in detail? [10M]
6. Explain about Lamport & vector timestamp? [10M]
7. (a) A Comparison of Web services with the Distributed Object Model? [05M]
(b) Write about Distributed Mutual Exclusion? [05M]
8. Explain SOAP in detail? [10M]
9. Explain in detail the COBRA architecture and also services provided by COBRA? [10M]
10. Write about in detail about COBRA's CDR? [10M]

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