**LP-V Oral Questions**

**Practical 1**

1. What is RMI?
2. What is the method that isused by the RMI client to connect to remote RMI servers?
3. How distributed garbage collector does manages the disconnections detected on the client side?
4. What is the relationship between the RMI and CORBA?
5. What is Remote object?
6. What is Server object?
7. What is rmi registry?
8. What are the different types of classes that are used in RMI
9. What is the main purpose of Distributed object applications in RMI?
10. How does the communication with remote objects occurin RMI?
11. What are the steps that are involved in RMI distributed applications?
12. What is the use of java .rmi .Remote Interface in RMI?
13. Write a program to show the remote interface using RMI.
14. Why are stubs used in RMI?
15. Why is the function or role of skeleton in RMI?
16. How dynamic class loading does happens in RMI?

**Practical 2**

1. What is CORBA?
2. What does CORBA provide?
3. What does Java offer CORBA Programmers?
4. Which protocol isused for invoking methods on CORBA objects over the internet?
5. Name some of the CORBA development tools?
6. Explain Naming Service in CORBA?
7. What are the ORBlets?
8. What is an Object Implementation defined in ORB Architecture?
9. What is OMG IDL?
10. What is Call Back Mechanism?
11. What is Event Service in CORBA?
12. What is Callback Mechanism in CORBA?
13. What is the main difference between RMI and CORBA?
14. Draw the class hierarchy in CORBA application?
15. What does CORBA offer Java Programmers?
16. What types of event channel models does the Event Service provide?
17. Give the diagrammatic representation of Pull and Push models?
18. What is URL Naming Service?
19. Explain the Boot strapping technique in RMI?
20. What are the CORBA services?
21. What are all the requirements needed to build a CORBA

**Practical 3**

1. What is MPI?
2. What is Open MP?
3. What is difference between Open MP and Open MPI?
4. How can Open MP threads permanently allocate memory on GPUs?
5. Is Open MP multiprocessing or multithreading?
6. Is Open MP parallel or concurrent?
7. How many threads can Open MP use?
8. What are the different types of synchronization in Open MP?
9. Does Open MP use multiple cores?
10. What is the advantage of Open MP?
11. How many cores does Open MP use?
12. What is default in Open MP?
13. What is the limit of threads?
14. How many threads can be active?
15. Can Open MP be used more than one node?
16. Is Open MP a compiler?
17. Which compiler supports Open MP?
18. Is OpenMP shared memory or distributed memory?
19. How many processors does Open MP have?
20. What is thread in OpenMP?
21. What is master threadin Open MP?
22. What are the disadvantages of Open MP?
23. What is the difference between thread and processin OpenMP?
24. What are the primary components of OpenMP?

**Practical 4**

1. .What is Berkeley Algorithm?
2. What is importance of Berkeley Algorithm?
3. How Berkeley Algorithm is useful?
4. How clock synchronization is achieved through Berkeley algorithm?
5. Which algorithm is used for clock synchronization?
6. How does the Berkeley algorithm achieve fault tolerant average and give better synchronization of time?
7. What is the difference between Berkeley and Cristian's algorithm?
8. What is the function of clock synchronization?
9. What is the accuracy of clock synchronization?
10. What are the two methods used for time synchronization?
11. What is an example of clock synchronization?
12. What is Berkeley algorithm used for?
13. Is Berkeley algorithm active or passive?
14. What is the formula for propagation time for Berkeley algorithm?
15. What are the benefits of clock synchronization?

**Practical 5**

1. What is Mutual Exclusion?
2. What are the different mutual exclusion algorithms available in distributed systems?
3. What are the requirements of mutual exclusion?
4. Classify Distributed mutual exclusion algorithm.
5. Differentiate between token based algorithms and non-token based algorithms.
6. What are different non-token based algorithm are there in distributed system?
7. What are different token based algorithm are there in distributed system?
8. What are the different performance measure of mutual exclusion algorithms?
9. Give comparative performance analysis of mutual exclusion algorithms.

**Practical 6**

1. What is Election Algorithm?
2. Name different election algorithms?
3. What is Bully and Ring Algorithm?
4. What election algorithm does?
5. Why election algorithms are normally needed in a distributed system?
6. What is leader election algorithm and why do we need this algorithm?
7. How many types of messages are there in election algorithm?
8. What are the features required for election algorithms?
9. What is the purpose of election system?
10. What is the time complexity of leader election?

**Practical no.7**

1. What is Web Service?
2. What are different types of Web Services?
3. What is SOAP?
4. What is REST?
5. Explain Web Services Architecture?
6. Explain the concept of Service Provider.
7. Explain the concept of Service Requestor.
8. Explain the concept of Service Registry.
9. Differentiate SOAP and REST.