

Reg. No. :

--	--	--	--	--	--	--	--	--	--

Question Paper Code: 46204

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Sixth Semester

Computer Science and Engineering

14UCS604 - DISTRIBUTED SYSTEMS

(Regulation 2014)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. What is Distributed system? Give examples.
2. How does migration transparency differ from replication transparency?
3. State the role of middleware in a distributed system.
4. Compare and contrast RMI with RPC.
5. State the purpose of flat file and directory service in a distributed system.
6. What is Napster peer-to-peer file sharing?
7. Differentiate between logical clock and physical clocks.
8. What is atomic commit protocol?
9. What is process migration?
10. Differentiate between load balancing and load sharing approaches.
11. What is the main objective of distributed systems? What are the challenges?
12. Define heterogeneity.
13. Compare and contrast RMI with RPC.

14. Define jitter and latency.
15. Define Berkeley Internet Name Domain (BIND).

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. Describe how to compare and contrast cloud computing with more traditional client-server computing? What is novel about cloud computing as a concept? (10)
17. Discuss about System Models. (10)
18. Explain the main task of the Distributed algorithm which is used for locating nodes and objects. (10)
19. Compose the followings: (i) Clocks (ii) Events (iii) Process States (iv) UTC. (10)
20. Explain about distributed shared memory with neat sketch. Also discuss its issues in design and implementation. (10)