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| Reg No-Date:9-4-19 |



**ST. JOSEPH’S COLLEGE (AUTONOMOUS), BANGALORE-27**

**MSc COMPUTER SCIENCE - IV SEMESTER**

**SEMESTER EXAMINATION: APRIL 2019**

**CS 0115- Distributed Computing System**

**Time- 2 1/2 hrs Max Marks-70**

**This paper contains ONE printed page**

**I.ANSWER ANY SEVER QUESTIONS(10\*7=70)**

1. a)What is Distributed System? (3+7=10)

 b) Write the advantages and disadvantages of Centralized system.

2. What are Multiprocessors? Explain Bus based Multiprocessors in detail. (10)

 3. Explain Asynchronous Transfer Mode protocol with a neat diagram. (10)

4. Write short notes on (5+5=10)

 a) Peer verses Hierarchical group in Group Communication

 b) Group Membership in Group Communication

5 .a) Explain Token Ring Algorithm in Mutual Exclusion (5)

 b) Discuss Deadlock Detection in Distributed Systems (5)

6. a) Define Thread (2+8)

 b) Explain the Workstation model in detail with a neat diagram

7. Explain Design Issues in Processor Allocation Algorithm (10)

8. a) Explain File Server Interface in Distributed File System Design (5)

 b) Explain File Usage in Distributed File System Implementation (5)

9. a) What is Distributed Shared Memory ? (2)

 b) Write in detail about Sequential and Casual Consistency in Distributed Shared Memory (10)

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