

Register No.: ..... Name: .....

**SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)**

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

**SEVENTH SEMESTER INTEGRATED MCA DEGREE EXAMINATION (S), FEBRUARY 2024  
(2020 SCHEME)****Course Code: 20IMCAT409****Course Name: Distributed Computing****Max. Marks: 60****Duration: 3 Hours****PART A***(Answer all questions. Each question carries 3 marks)*

1. Define distributed systems.
2. Explain the function of transaction processing monitor.
3. Mention the advantages of multithreading.
4. What is meant by stub procedure?
5. Write a short note on closure mechanism.
6. Briefly explain flat naming.
7. Compare consistency and coherence.
8. Explain mirroring.
9. What is a file handle?
10. Write a note on distributed file system.

**PART B***(Answer one full question from each module, each question carries 6 marks)***MODULE I**

11. Describe the architectural styles in detail. (6)

**OR**

12. Explain grid computing systems. (6)

**MODULE II**

13. Describe the implementation of remote procedure call in detail. Also explain the parameter passing methods in remote procedure call. (6)

**OR**

14. Define virtualization. Explain the architectures of virtual machines. (6)

**MODULE III**

15. Explain domain name system. (6)

**OR**

16. Explain the home-based approaches for solving flat naming issues. (6)

**MODULE IV**

17. Summarize the types of failures in distributed systems. (6)

**OR**

18. Describe sequential consistency in detail. (6)

**MODULE V**

19. Explain cluster-based distributed file systems in detail. (6)

**OR**

20. How do you achieve synchronization in distributed file systems? (6)

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