

Register No.: Name:

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIFTH SEMESTER B.TECH DEGREE EXAMINATION (Regular), DECEMBER 2023

(2020 SCHEME)

Course Code : 20CST385

Course Name: Client Server Systems

Max. Marks : 100

Duration: 3 Hours

PART A

(Answer all questions. Each question carries 3 marks)

1. Define the following terms in Client Server Systems: Web Server, Database Server Transaction Servers.
2. Compare and contrast Stateless Server with Stateful server.
3. Define Model View Controller.
4. Comment the different client topologies in Client Server System.
5. Define Remote Procedure Call in Client Server System.
6. Comment any two Utility Services that been used in Client Server Systems.
7. Define the following terms in Client Server Systems: reliability and agility.
8. Comment the need of Remote Systems Management in Client Server Systems environment.
9. Explain the need of mainframe system environment in Client Server Systems environment.
10. What is Network translator in Client Server Systems?

PART B

(Answer one full question from each module, each question carries 14 marks)

MODULE I

11. a) Describe the different type of servers used in Client Server Systems. (7)
b) Explain business perspective and technology perspective in Client Server Systems. (7)

OR

12. a) Comment the need of thin client and thick client in Client Server Systems for application deployment and usage. (7)

- b) Explain the significance of transaction servers and web server computer in Client Server environment. (7)

MODULE II

13. a) Comment to which tier of architecture the ATM machine belongs to and justify the architecture with suitable diagram. (7)
b) Illustrate the need of Client Server architecture in deploying a web server application in the modern world. (7)

OR

14. Explain two tier and three tier architecture with neat diagram. (14)

MODULE III

15. a) Compare and contrast Network Operating System with Personal Computer. (7)
b) Explain different approaches for improving performance of client/server applications. (7)

OR

16. Describe different type of parameter passing semantic in RPC in Client Server Systems. (14)

MODULE IV

17. a) Alice want to communicate with Bob in a client server system where the environment guarantees security of files that have been exchanged among them. Suggest them a suitable protocol for the above scenario with its working. (7)
b) Alice want to communicate with Bob in a client server system where the environment does not guarantee security of files that been exchanged among them. Suggest them a suitable protocol for the above scenario with its working. (7)

OR

18. a) Comment the need of RDP protocol during the era of COVID. (7)
b) Explain the advantages and disadvantages of Remote Desktop Protocol in Client Server Environment. (7)

MODULE V

19. Explain the working of File server Computing and Database Computing in Client Server environment. (14)

OR

20. Explain any two Database System Architectures with a neat sketch and its working. (14)
