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Reg No.:_______ Name:________

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B. Tech Degree S8 (R,S) Exam April 2025 (2019 Scheme)

Course Code: CST426

		Course Code. CS1420	
		Course Name: CLIENT SERVER ARCHITECTURE	
Ma	x. M	. Marks: 100 Duration: 3 I	
		PART A	
		Answer all questions, each carries 3 marks.	Marks
1		Write short notes on single system images and downsizing.	(3)
2		Differentiate between	(3)
		a) Fat client and Thin client b) Stateful and Stateless servers.	
3		Discuss the topologies of Clients/Server systems with suitable examples.	(3)
4		Explain the role of Middleware in client server Architecture?	(3)
5		Enumerate the services provided in a client / server system.	(3)
6		Define RPC mechanism?	(3)
7		List out the services provided by x-terminals.	(3)
8		Explain the terms with example i) availability ii) serviceability iii) agility in Client	(3)
		Server architecture.	
9		What is a Web Socket and how it works?	(3)
10		How do browser interact with the servers?	(3)
		PART B	
		Answer any one full question from each module, each carries 14 marks.	
		Module I	
11	a)	What are the different possible ways to improve the performance of the	(7)
	b)	Client/Server applications? Explain the Client/Server System development methodology and its various	(7)
		phases.	
		OR	
12	a)	Outline the architecture of a Client/Server Computing System with examples.	(7)
	b)	Explain client/server security threats in detail.	(7)
		Module II	
13	a)	Discuss the relevance of Clients/Server system in adopting open system standards.	(7)
		Justify your answer.	
	b)	What is Mode View Controller (MVC) and how does it work?	(7)
		OR	

OR

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14	a)	How two-tier computing and three-tier computing improves the performance of Client/Server system.	(7)
	b)	Explain architecture for Business Information Systems.	(7)
		Module III	
15	a)	Explain the server functionality in detail, for a client/server computing.	(7)
	b)	With a neat sketch explain the architecture of CORBA.	(7)
		OR '	
16	a)	What is Inter Process Communication (IPC) and what are the major services it offers?	(7)
	b)	In Client/Server computing, explain the following with example in detail	(7)
		(a) Dynamic Data Exchange (b) Remote Boot Service (c) Object-linking and	
		embedding	
		Module IV	
17	a)	What do you mean by Availability, Reliability, Serviceability and Security in	(7)
		Client Server architecture? Explain with examples.	
	b)	How Remote Systems Management security is ensured in a Client/Server	(7)
		application.(RDP, TELNET, SSH)	
		OR	
18	a)	Explain Communication Interface Technology in Client/Server application.	(10)
	b)	Discuss network service acquisition mechanism for the client server model.	(4)
		Module V	
19	a)	Explain the architecture of Transformational system.	(7)
	b)	Discuss the role of web browser for providing web services in Client/Server	(7)
		environment?	
		OR	
20	a)	Explain how the Database is being accessed on the Web Page.	(7)
	b)	What are micro services and explain its benefits in detail.	(7)
