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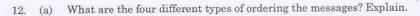
		Reg. No. :	2-
- 1	Quest	ion Paper Code	:90422
В	E./B.Tech. DEGRE	E EXAMINATIONS, NO	VEMBER/DECEMBER 2022.
		Sixth Semester	
	challend street	Computer Science and En	gineering
	CS	8 8603 – DISTRIBUTED	SYSTEMS
		(Regulations 2017	
Time :	Three hours		Maximum: 100 marks
		Answer ALL question	ons.
		PART A — $(10 \times 2 = 20)$	marks)
1.	What do you mean b	y Message Passing?	Jegathurhamb
TATA	Define Distributed I What do you mean b	Program. by Synchronous and Asyn	chronous Execution?
4.	What is meant by as	synchronous programmin	g?
5.	Explain the term mu	utual exclusion.	
6.	What is Deadlock?		
7.	State the use of Rollback Recovery.		
8.	What is Consensus in distributed System?		
9.	What do you understand by two lines Peer-to-Peer computing?		
10.	Define Data Indexin	ıg.	
		PART B — (5 × 13 = 65	marks)
11.		difference between Mess unication Model.	age Passing and Shared Memory
		Or	
22100	(b) Explain the ty	pes of group communicat	ions used in Distributed System.

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Or

- (b) Elucidate on the Total and Casual Order in Distributed System with a neat diagram.
- 13. (a) Explain Ricart Agrawala Algorithm with an example.

Or

- (b) Name and explain the different types of deaklock models in Distributed system with the commonly used strategies to handle deadlocks with a neat diagram.
- (a) Illustrate the different types of failures in distributed systems and explain how to prevent them.

Or

- (b) Illustrate briefly the two kinds of checkpoints for checkpoint algorithm.
- (a) Explain the different types of Overlay Networks with its advantages and disadvantages.



PART C — $(1 \times 15 = 15 \text{ marks})$

(a) Design the procedure for causality in a synchronous execution with a suitable example.

Or

(b) Analyse Suzuki-Kasami's Broadcast Algorithm for Mutual Exclusion in Distributed system.

90422