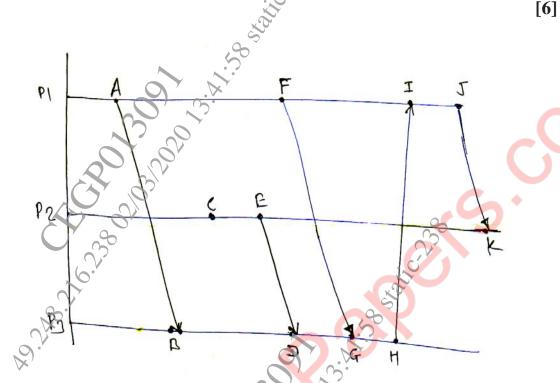
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B.E./INSEM/APR-597						
B.E. (IT) (Semester - II)						
414462: DISTRIBUTED COMPUTING SYSTEM						
(2015 Pattern)						
	e:1 H	_		[Max. Marks: 30		
Instr			the candidates.			
	1) 2)		wer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6. ures to the right side indicate full marks.		C - •	
	<i>3</i>)	- /	me suitable data if necessary.	9	9	
	ŕ					
<i>Q1</i>)	QI) a) Explain the concepts of middleware in distri				n. How it deals	
		with	Heterogeneity?	95	[5]	
	b) What is a three - tiered client - server architecture?				[5]	
	0	×				
OR O						
Q 2)	a)	Exp	lain various design issues of distributed	system.	[5]	
	b) Explain what is meant by (distribution) transparency and give example					
	of different types of transparency.				[5]	
6.						
<i>Q3</i>)	a)	Defi	ine:		[4]	
		i)	Persistent Communication.			
		ii)	Transient Communication.	-0)	[4]	
		iii)	Asynchronous Communication.	25		
		,		0, 6,		
		iv)	Synchronous Communication.	3 63		
	b)		What are the drawback of Lamport's logical clock algorithms and how			
they are overcome in vector clock algorithm.				[6]		
				· V		
			OR			

P.T.O.



b) Solve following timing diagram using Vector - Time - Stamp Method.



Q5) a) Show that Byzantine agreement cannot always be reached among four processors. Or two processors are fault.[6]

b) Distinguish between:

[4]

- i) Buffering and Caching.
- ii) Caching and Replication.

OR

Q6) a) How failure is masked using redundancy? What is k fault Tolerance system? [6]

b) Explain data-centric consistency models with its advantages and disadvantages. [4]