

- b. Explain with an example, the mutual exclusion implementation using distributed approach.
- c. Consider a group of distributed system processes P<sub>1</sub>, P<sub>2</sub>, P<sub>3</sub>, P<sub>4</sub> and P<sub>5</sub>. The current coordinator is P<sub>5</sub>. The process, P<sub>5</sub> fails and P<sub>2</sub> notices the failure. If the bully algorithm is used for election of a new coordinator and the election attribute is the maximum of process 8 numbers. Show the set of all messages communicated through each communication channel for this election show the type of each message as "election", "response" or "Coordinator".

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6 a.	What is processor thrashing? Give examples of two global scheduling algorithms that may	10
	lead to processor thrashing. Suggest necessary measures to be taken to handle this problem.	10
b.	Discuss in detail about the location policies used for load sharing with their relative merits	10
	and demerits.	
7 a.	List the advantages of process migration and also explain the different mechanism used for	10
	process migration.	
b.	Explain the implementation of Kernel level threads and also discuss the merits and demerits	10
	of kernel level threads over user level threads.	
8 a.	List and explain the various file sharing semantics.	10
b.	Explain the two approaches to verify the validity of Cache data.	10

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