B.E. Computer Science & Engineering Eighth Semester

CSE8051 - Elective-IV : Distributed System

P. Pages : 1 **GUG/W/18/2005**

Time : Three Hours * 1 5 3 5 * Max. Marks : 80

Notes : 1. All questions are compulsory.
2. All questions carry equal marks.
3. Due credit will be given to neatness and adequate dimensions.
4. Assume suitable data wherever necessary.

1.	a)	Explain Distributed computing system.	**8**
	b)	Explain virtualization in details.	**8**
		OR	
2.	a)	Explain message oriented transient communication in details.	**8**
	b)	Explain Remote procedure call in details with example.	**8**
3.	a)	Explain in details Distributed shared memory.	**8**
	b)	Explain mutual Exclusion in details.	**8**
		OR	
4.	a)	What are different Election algorithms? Explain Bully algorithm with suitable example.	**8**
	b)	Explain the concept of physical clock synchronization.	**8**
5.	a)	Explain the architecture of distributed file system.	**8**
	b)	Explain Process resilience and different process failure detection methodologies in fault tolerance method.	**8**
		OR	
6.	a)	Explain in details distributed commit and recovery.	**8**
	b)	What is Fault Tolerance? Explain in detail.	**8**
7.	a)	Describe the system architecture of Amoeba.	**8**
	b)	Explain the objects and capabilities in Amoeba.	**8**
		OR	
8.	a)	Explain goals and architecture of Mach system.	**8**
	b)	Write note on	
		i) Process Management of Mach.	**4**
		ii) Memory Management of Mach.	**4**
9.	a)	What are the characteristics of the multimedia data? Explain in details.	**8**
	b)	Justify, media streaming as a solution to handle large client pool?	**8**
		OR	
10.	a)	Explain Resource management of multimedia system.	**8**
	b)	Describe in details stream adaptation with example.	**8**

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