BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: BRANCH	M.TECH H: CSE	(LIND SEMESTER EXAMINATION)	SEMESTER : I SESSION : MO/18	
TIME:	3 HOURS	SUBJECT: CS504 DISTRIBUTED SYSTEM	FULL MARKS: 50	
 INSTRUCTIONS: 1. The question paper contains 5 questions each of 10 marks and total 50 marks. 2. Attempt all questions. 3. The missing data, if any, may be assumed suitably. 4. Before attempting the question paper, be sure that you have got the correct question paper. 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. 				
Q.1(a)	Comment on the challeng	ges imposed on a distributed system with respect t	o heterogeneity, openness	[5]
Q.1(b)	Summarize the functions of the top five layers of the OSI model with an example of the technology used at each layer.			[5]
Q.2(a) Q.2(b)				[5] [5]
Q.3(a) Q.3(b)		mechanism used in the Napster application? f the Sun NFS. Explain how it provides access tran	sparency?	[5] [5]
Q.4(a)		fore relation between events in distributed system used to capture this relation?	ns. What is Lamport logical	[5]
Q.4(b)		Agrawala's algorithm for implementing distribute	d mutual exclusion.	[5]
Q.5(a)	Describe the voting ph transactions in distribute	ase and the commit phase of the two phase ed systems?	commit protocol for flat	[5]
Q.5(b)		ng algorithm for distributed deadlock detection.		[5]

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