7/6/2012

B.F. CMPN VIII (Rev) Distributed Computing

159-mk : 1stHf-11.

Con. 3726-11.

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(REVISED COURSE)

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			(11211023 3031102)		
			(3 Hours)	[Total Marks :	100
	N.B.	(2)	Question No. 1 is compulsory. Attempt any four questions out of remaining questions. Draw neat diagrams wherever required.		
1.	(b)	What are the desirable features of an Open Distributed Systems? Differentiate between Process and Threads using proper examples. Compare DOS and NOS as platforms for Distributed Systems.		nples.	5 10
2.	1,00	Wh	at are the parameter passing-semantics of RPC ? at makes a RPC complicated ? Discuss the protocols for h complicated RPCs.	andling some of	5
5	(c)	Discuss the different methods available for ensuring ordered message delivery Name the protocols which implement these methods.			10
3.		What are the issues in designing Load Balancing algorithms? Explain the different distributed physical clock synchronization algorithms wit their relative advantages and disadvantages.			10 10
4.	(a)	What are the criteria to be considered for choosing the block size while designing a DSM? Explain the different replacement strategies of migrating or replicating the blocks from the cache.			
•	(b)	What is the notion of a Context in a name space? Explain the different clustering and context binding strategies of names.			10
5.	(a)	Des	scribe the different approaches for deadlock detection in D	S.	10
	(b)				10
6.	(a)	What are the probable failures in the message passing form of IPC? With neadiagrams explain the reliable IPC protocols.		10	
	(b)	Describe the different models for organizing threads. Explain the working of a multi-threaded server.			10
7.	Writ	(a) (b)	Lightweight RPC Process Migration in Heterogeneous systems Stateful and Stateless File Servers		20

(d) Ricart Agrawala Algorithm-merits and Demerits.