

					Pri	intec	l Pa	ge: 1	of 1
				Sul	oject	Co	de: l	RCS	701
Roll No:									

B TECH (SEM-VII) THEORY EXAMINATION 2020-21 DISTRIBUTED SYSTEM

Hou 1. Atte	rs Total Marks: 70 empt all Sections. If require any missing data; then choose suitably.
1 1 1000	SECTION A
Atten	apt all questions in brief. 2 x 7 = 1
a.	Define replication.
b.	Explain Locks.
c.	Define casual and total ordering.
d.	Explain Limitation of Distributed system.
e.	Describe Distributed Deadlock.
f.	Differentiate between resource and communication deadlocks.
g.	Differentiate between Backward and Forward recovery.
	SECTION B
<u>Atten</u>	npt any <i>three</i> of the following: $7 \times 3 = 2$
a.	Explain Distributed System. What are the basic features of distributed system in detail?
b.	Define the architectural models of distributed system.
c.	Describe distributed mutual exclusion. What are the requirements distributed mutual exclusion theorems?
d.	Discuss Atomic Commit in Distributed Database system with example.
e.	Describe the issues in Fault tolerance in detail.
Atten	SECTION C apt any <i>one</i> part of the following: $7 \times 1 = 7$
(a)	What is Logical Clock? Explain Lamport's Clock with suitable example.
(b)	Describe Vector Logical Clock with suitable example.
	apt any <i>one</i> part of the following: $7 \times 1 = 7$
(a)	Explain any Token based algorithm in detail.
(b)	Explain the performance metric for distributed mutual exclusion algorithms detail.
Atten	inpt any <i>one</i> part of the following: $7 \times 1 = 7$
(a)	Briefly explain the classification of agreement problem.
(b)	Define distributed shared memory. What are the design issues in distribut
	shared memory?
Atten	opt any <i>one</i> part of the following: $7 \times 1 = 7$
(a)	Explain Failure Recovery in Distributed Systems. Also explain the Recovery
	in Distributed Database Systems in detail.
(b)	in Distributed Database Systems in detail. Describe the followings (i) Consistent Checkpoints (ii) Voting protocols.
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