	ADAMAS UNIVERSITY **END SEMESTER EXAMINATION** (Academic Session: 2020 – 21)		
Name of the Program:	M.Tech in CSE	**Semester:** (I/III/ V/ VII/IX)	II
Paper Title:	Parallel and Distributed Computing	**Paper Code:**	CSE21811
Maximum Marks:	50	**Time Duration:**	3 Hrs
Total No. of Questions:	**17**	**Total No of Pages:**	1
(Any other information for the student may be mentioned here)	**1.** At top sheet, clearly mention Name, Univ. Roll No., Enrolment No., Paper Name & Code, Date of Exam. **2.** All parts of a Question should be answered consecutively. Each Answer should start from a fresh page. **3.** Assumptions made if any, should be stated clearly at the beginning of your answer.		

Group A **Answer All the Questions (5 x 1 = 5)**			
1	What is Access Transparency?	**Remember**	**CO2**
2	What is Migration Transparency?	**Remember**	**CO2**
3	What is RPC?	**Remember**	**CO3**
4	What is Mutual Exclusion?	**Remember**	**CO5**
5	Define Strict Consistency Model?	**Remember**	**CO4**
Group B **Answer Allthe Questions (5 x 2 = 10)**			
6 a)	Explain advantages related to Distributed systems?	**Understand**	**CO1**
(OR)			
6 b)	Explain Workstation Model?	**Understand**	**CO1**
7 a)	Explain Static Load Distribution in Distributed system?	**Remember**	**CO2**
(OR)			
7 b)	Explain Reply Messages in RPC?	**Remember**	**CO2**
8 a)	"How does a client locate a server" Justify your answer?	**Remember**	**CO3**
(OR)			
8 b)	Explain Smallest page size algorithm?	**Remember**	**CO3**
9 a)	What is the Transparency in Distributed Systems?	**Remember**	**CO4**
(OR)			
9 b)	What are the security issues to be maintained by a Distributed System?	**Understand**	**CO4**
10 a)	Explain reduction principle of Distributed shared memory?	**Apply**	**CO5**
(OR)			
10 b)	How computer clocks are implemented in Distributed system?	**Apply**	**CO5**
Group C **Answer Allthe Questions (7 x 5 = 35)**			
11 a)	Explain different types of procedure calls helping to establish RPC.	**Understand**	**CO1**
(OR)			
11 b)	Describe Client and Server Stubs in RPC?	**Understand**	**CO1**
12 a)	Differentiate between Centralized vs Distributed Systems?	**Remember**	**CO2**

	(OR)		
12 b)	Explain Variable space algorithm	**Remember**	**CO2**
13 a)	Explain Fault Tolerance and Security issues faced by Distributed systems?	**Remember**	**CO3**
	(OR)		
13 b)	Explain Synchronization Issues faced by Distributed systems?	**Remember**	**CO3**
14 a)	Explain Conventional procedure call?	**Remember**	**CO4**
	(OR)		
14 b)	Explain Client and Server Stubs communication in Distributed systems?	**Remember**	
15 a)	Discuss about Implementing RPC Mechanism?	**Apply**	**CO4**
	(OR)		
15 b)	What are the different types of RPC messages?	**Apply**	**CO4**
16 a)	Discuss about some special types of RPCs	**Remember**	**CO5**
	(OR)		
16 b)	Describe Concurrent Access to Multiple Servers?	**Remember**	**CO5**
17 a)	How Do you find which block to be replaced for Distributed Shared Memory?	**Apply**	**CO5**
	(OR)		
17 b)	Explain importance of clock synchronization?	**Apply**	**CO5**