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Co	de No: 126AP JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSIT	R13	
AG	B. Tech III Year II Semester Examinations, April DISTRIBUTED SYSTEMS (Computer Science and Engineering) ne: 3 hours	- 2018 	/
No AG	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questionsists of 5 Units. Answer any one full question from each unit 10 marks and may have a, b, c as sub questions. PART - A	t. Each question carries	1
1.a) b) c) d) e) f) g) h) i)	,	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3]	_
	Write about two phase locking. PART B	[2] [3] (50 Marks)	
2.a) b)	Explain about architectural elements. Write a short notes on characteristics of distributed systems.	[5+5]	
3. 4.a) b)	Explain in brief about system models of distributed systems. Discuss about distributed mutual exclusion. Discuss about consensus and related problems. OR	AG [10] [5+5]	<u> </u>
5.a) b)	Explain about clocks, events and process states. Discuss about global states.	[5+5]	
△ (6.a) b)	Discuss about the API for the Internet protocols. Explain about IPC in UNIX.	\triangle \triangle \triangle \triangle	A
7.a) b)	Discuss about communication between distributed objects. What is a Remote Procedure Call(RPC)? Explain.	[5+5]	
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Explain about Andrew file system. 8.a) Explain about design and implementation issues of distributed shared memory. b) [5+5]Explain the following/ a) Directory services. b) Release consistency in distributed shared memory. 10.a) What is mean by atomic commit protocols? Explain. Discuss about timestamp ordering. [5+5]OR 11.a) Discuss about concurrency control in distributed transactions. b) Explain about flat and nested distributed transactions.