

Library Date.

Eighth Semester B.E. Degree Examination, Dec.2019/Jan.2020

Distributed System

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

Note: Answer any TIVE jun questions, selecting at teast 111 0 questions from each part			
		PART – A	
1	a.	What is a distributed system? Give examples of distributed systems and explain in	brief.
1	α.	What is a distributed system.	(10 Marks)
	b.	Discuss the various challenges in the design of distributed system.	(10 Marks)
2	a.	Explain the challenges of distributed system.	(10 Marks)
	b.	Describe software layers briefly.	(10 Marks)
3	a.	Describe the characteristics of inter process communication.	(04 Marks)
	b.	Explain the Request Reply Protocol (RRP) based on trio of communication primit	ives.
		A second	(10 Marks)
	c.	List out some outstanding issues related to datagram communication.	(06 Marks)
4	a.	List the characteristics of inter process communication and explain each.	(10 Marks)
	b.	What is a socket? Write a java program for UDP client sends a message to the	server and
		gets a reply.	(10 Marks)
PART – B			
5	a.	Explain cipher block chaining and stream ciphers.	(12 Marks)
	b.	Explain the digital signature with public keys.	(08 Marks)
6	a.	Describe digital signatures with public keys.	(10 Marks)
	b.	Describe Cipher block chaining with cryptographic algorithm.	(10 Marks)
7	a.	With suitable diagrams, explain bully election algorithm.	(08 Marks)
	b.	What are the performance metrics for mutual exclusion? Explain.	(06 Marks)
	c.	List and explain the ordered multicast communication.	(06 Marks)
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8	а	List out the POA design goals? Explain the POA architecture.	(10 Marks)
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Write short notes on:

i) CORBA event service

ii) Failure model.

(10 Marks)

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