Reg. No.:										
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Question Paper Code: 46204

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Sixth Semester

Computer Science and Engineering

14UCS604 - DISTRIBUTED SYSTEMS

(Regulation 2014)

	(Regulation 2014)
Du	ration: Three hours Maximum: 100 Marks
	Answer ALL Questions
	PART A - $(10 \times 1 = 10 \text{ Marks})$
1.	is the harnessing of many small, cheap computational devices that are present in users physical environments, including the home, office and even natural settings.
	(a) mobile computing(b) Ubiquitous computing(c) both (a) and (b)(d) none of these
2.	It acts as Applets are a potential security threat to the local resources in the destination computer?
	(a) Mobile codes (b) Mobile agents (c) Thin clients (d) Platform
3.	The java API for in the internet provides both datagram and stream communication.
	(a) Group communication(b) Client-Server communication(c) Interprocess Communication(d) Platform
4.	The send operation is non-blocking in the sending process. The receive operation can

have blocking and non-blocking variants in

(c) both (a) and (b)(d) none of these

(a) synchronous form of communication(b) Asynchronous form of communication

5.	In distributed systems, link and site failure	e is detected by,							
	(a) Polling (b) Handshaking ((c) Token passing	(d) None of the mentioned						
6.	Internet provides for remote login	1.,							
	(a) Telnet (b) Http (c) Ftp	(d) RPC						
7.	Process Management contains								
	(a) Platform description(c) Memory management	(b) IP (d) RPC							
8.	the performance of any system computers depends upon the balanced di	_							
	(a) Global scalability	(b) Load balan	cing						
	(c) dynamic host	(d) functional requirements							
9.	Region can be shared in								
	(a) Libraries	(b) Kernel	(b) Kernel						
	(c) Shared data and communication	(d) All the above							
10.	Abstraction of a single activity								
	(a) Process (b) Thread	(c) Region	(d) Program						
	PART - B (5 2	x 2 = 10 Marks)							
11.	Define Unmarshalling.								
12.	Duplicate the terms: Jitter and Clock Drift	rate.							
13.	3. What are Naming Services in Distributed System?								
14.	What is logical clock?								
15.	Define Process migration.								
	PART - C (5 x	16 = 80 Marks)							
16.	(a) Describe how to compare and contrast server computing? What is novel about								

	(b) (1) List out the common characteristics used to access the Distributed Systems						is. (8)				
(ii) Illuminate the challenges in Distributed Systems.								(8)			
17.	(a)	(i) W	Vhat is RN	II? Ho	w it is ir	nplement	ed? Write r	otes on JA	VA RM	I.	(8)
		(ii) V	What is me	ant by	Publish	-subscrib	e systems?	Write shor	rt notes o	on it.	(8)
							Or				
	(b)	(i)	protocol delivered	is impi	lemented order s	d over a sent, with	cs that can ICP/IP contout loss or ion to be brown	nection, who	hich gua	rantees tha	t data is
		(ii)	Request-lanswer w				implemente	ed Using T	ΓCP or U	UDP? Justi	ify your (8)
18.	(a)	Det	fine Peer t	o Peer	systems	. Explain	in detail th	e working	of Peer t	to Peer Sys	tems.
											(16)
							Or				
	(b)	(i)	Draw the	files s	service a	rchitectui	re and expla	in its oper	ations.		(8)
		(ii)	Write a c		•	Andrew fi	le system a	nd draw a	diagram	how proce	esses are
19.	(a)	Dis	tinguish a	nd exa	mine the	e process	of active ar	nd passive	replication	on model.	(16)
							Or				
	(b)	(i)	Discuss	in	brief	about	Clocks,	Events	and	Process	states.
		(ii)	Give the	clear e	explanati	on for Gl	obal States	in Distribu	ited Syst	ems.	(8)
20.	(a)	Exp	plain, how	proce	ss migra	tion is im	plemented Or	in heteroge	eneous s	ystem?	(16)
	(b)	(i)	Summari	ze the	features	of load b	oalancer in t	he view of	vendor	specific	(8)
	(=)	` /						1 . 10 // 01		L	
		(11)	vv iite siic	ліноц	es on res	ource Illa	nagement.				(8)