Reg. No.:					

Question Paper Code: 41264

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Sixth Semester

Computer Science and Engineering

		14UCS604 - DIST	TRIBUTED SYSTEMS					
		(Regul	lation 2014)					
Dυ	ration: Three hours		M	aximum: 100 Marks				
		Answer A	ALL Questions					
		PART A - (1	$0 \times 1 = 10 \text{ Marks}$					
1.	The is also a very large distributed system.							
	(a) Internet	(b) WWW	(c) Web service	(d) Server				
2.	which common characteristics can be used to assess distributed systems?							
	(a) Resource Sha	aring	(b) Concurrency					
	(c) Scalability		(d) All the above					
3.	TCP provides the abs	traction of a	stream between pairs	of processes.				
	(a) two-way		(b) single-way					
	(c) multi-way		(d) none of these					
4.	A datagram sent by receiver.	is transn	nitted without acknowle	edgement from sender to				
	(a) UDP	(b) TCP	(c) TCP/IP	(d) IP				
5.	Which one will provide distribution transparency?							
	(a) NOS	(b) DOS	(c) Middleware	(d) Hardware				
6.	is not possib	ole in distributed fil	e system.					
	(a) File replication	on	(b) Migration					
	(c) Client interfa	ice	(d) Remote access					

7.	Process Management contains					
	(a) Platform description(c) Memory management	(b) IP (d) RPC				
8.	The output of atomic clocks is used as the s					
	(a) International atomic time	(b) Coordinated Universal time				
	(c) Logical clocks	(d) GPS	,			
9.	Region can be shared in					
	(a) Libraries	(b) Kernel				
	(c) Shared data and communication	(d) All the above				
10.	Abstraction of a single activity					
	(a) Process (b) Thread	(c) Region (d) Progra	m			
	PART - B (5 x	2 = 10 Marks)				
11.	Define distributed systems.					
12.	Define object interfaces.					
13.	List out the transparencies in file system.					
14.	What is clock drift?					
15.	What are the types of process migration in	computing?				
	PART - C (5 x	16 = 80 Marks)				
16.	(a) Evaluate the trends in distributed system	m.	(16)			
	C)r				
	(b) Interpret the challenges in distributed s	ystems.	(16)			
17.	(a) (i) Discuss about the characteristics of	f inter process communication.	(8)			
	(ii) Write short notes on IP multicast.		(8)			
	C)r				
	(b) Criticize the implementation of RMI ar	nd its design Issues in various aspe	ects. (16)			
18.	(a) Paraphrase the concept of distr	ibuted file systems with a	n example. (16)			

	(b)	illustrate with a case study explain about the application of distributed algo-	rithm
		routing overlays.	(16)
19.	(a)	Compose the followings: (i) Clocks (ii) Events (iii) Process States (iv) UTC.	(16)
		Or	
	(b)	Define distributed mutual exclusion. Explain any two mutual exclusion algorit	thms.
			(16)
20.	(a)	Explain about distributed shared memory with neat sketch. Also discuss its issudesign and implementation.	ies in (16)
		Or	
	(b)	(i) Summarize the features of load balancer in the view of vendor specific.	(8)
		(ii) Write short notes on resource management.	(8)