B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Sixth Semester

Computer Science and Engineering

CS 6601 - DISTRIBUTED SYSTEMS

(Regulations 2013)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions. $PART - A (10 \times 2 = 20 \text{ Marks})$

- List the Limitations of distributed system.
- 2. Name some services and examples of Middleware.
- 3. What is the role of Proxy server and mobile core?
- 4. Define Inter-process Communication.
- 5. Describe the characteristics of Peer to systems.
- 6. Discuss on LDAP.
- Distinguish between physical clock and logical clock.
- 8. Write the Happened-before wat on.
- 9. List the issues in designing and balancing algorithms.
- Write any two advantage of Process Migration.

$PART - B (5 \times 16 = 80 Marks)$

1.	(a)	Explain in detail about trends in distributed systems.	(16)
		OR	
	(b)	(i) Enlighten the examples of distributed systems.	(10)
		(ii) Write short notes on WWW.	(6)
2.	(a)	Illustrate TCP and UDP communication with suitable example programs.	(16)
	(b)	OR Write down the steps in javaRMI and explain it with suitable programs.	(16)
î		and the state of t	(8)
3.	(a)	(i) With neat sketch explain Routing Overlays in detail.	(0)
		(ii) Write short notes on the following:	(4)
		(1) Napster and its legacy (2) Peer to Peer Middleware	(4)
		(2) Peer to Peer Middleware	
	(b)	Elucidate about File Service Architecture with neat diagram.	(16)
14.	(a)	Write short notes on the following:	
		(i) Ricart and Agraw ala's a gorithm	(8)
		(ii) Mackawa's Voting algorithm OR	(8)
	(b)	(i) Explain oncur ency control in detail.	(12)
		(ii) Discuss on Nested Transactions.	(4)
15.	(a)	Illustrate the features and mechanism of Process Migration with suit	
		examples.	(16)
		OR	(16
	(b)	Discuss on Task assignment, loading balancing and sharing in detail.	(16)