morning

Student Exam No.

GANPAT UNIVERSITY

B. Tech. Semester: VI Computer Engineering/Information Technology

Jate: 20/05/12016

Regular Examination April - June 2016

2CE605/2IT605: Distributed Systems

Time: 3 Hours

Total Marks: 70

Instruction:

1. Attempt all questions.

2. Figures to the right indicate full marks

3. Each section should be written in a separate answer book

SECTION-I

		DECITOR-1	
Que. –	1 (A) Define: Distributed system and explain various scaling techniques in detail.	n [6]
	(B)	Discuss client-server addressing and application layering model with suitable example.	[6]
		OR	
Que. – 1	(A)		[6]
	(B)	Explain various client-server interaction models in brief.	[6]
Que. – 2	(A)	Write and discuss the steps to implement RMI service for banking in brief.	[6]
	(B)	Explain various call semantics of RPC for server implementation.	[5]
		OR	
Que. – 2	(A)	How Java RMI differ from SUN RPC? Also discuss architecture of Remote Method Invocation.	[6]
	(B)	Explain how RPC works in detail?	[5]
Que 3	(A)	Define: Process migration and also discuss various reasons for process migration.	[4]
	(B)	Discuss the major difference between process and thread.	[4]
	(C)	Explain characteristics of distributed systems.	[4]
		[P. T	.0]

SECTION - II

Que 4	(A)	Define: Mobile agent and discuss various types of agents and its characteristics.	[6]
	(B)	Explain token-ring approach for selection of coordinate process with suitable example.	[6]
		OR	
Que. – 4	(A)	Discuss the java properties that make it a good language for mobile agent programming.	[6]
	(B)	Explain Lamport logical clock algorithm with suitable example.	[6]
Que 5	(A)	Explain Network File System architecture and its implementation.	[6]
	(B)	Explain the role of each component of Google File System in detail.	[5]
		OR	
Que 5	(A)	Discuss Hadoop map reduce concept with suitable example.	[6]
	(B)	Explain the role of Shadow Master in GFS and Write difference between NFS and GFS.	[5]
Que. – 6	(A)	What do you mean by Web service Composition? Discuss various approaches for web service composition.	[4]
	(B)	Explain hoard walking and emulation in CODA file system.	[4]
	(C)	Discuss distributed algorithm to achieve mutual exclusion in brief.	[4]

END OF PAPER