Total No. of Questions: 12]

SEAT No.:

P3227

Time: 3 Hours]

[Total No. of Pages: 2

[Max. Marks : 100]

B.E. (COMPUTER ENGINEERING)

Distributed Systems (2003 Pattern) (Elective - II)

Instructions to the candidates: Answers to the two sections should be written in separate answer books. 1) 2) Answer any three questions from each section. Neat diagrams must be drawn wherever necessary. 3) Figures to the right side indicate full marks. 4) 5) Assume suitable data if necessary. **SECTION - I** Explain what is transparency with example. [6] **Q1**) a) What are different scaling techniques in Distributed systems? b) [6] Explain in detail middleware models and services provided by c) middleware. [6] OR Explain different levels in Client server application with suitable example. **02**) a) [8] Compare between Distributed OS and Network OS. [6] b) Differentiate between migration transparency and relocation transparency. c) [4] Explain different forms of communication in message oriented **03**) a) communication. [8] Explain in detail RMI Mechanism with example. [8] b) OR Explain in details token bucket algorithm. [8] **04**) a) Explain RPC mechanism in details with the diagram. [8] b)

	The state of the s	8] 8]
Q6)	on an NFS Client.	ole [8]
SECTION - II		
Q7)	example. Compare between Ring and Bully election algorithms.	ole [6] [6]
Q8)	transactions. b) Explain how events can be ordered using happens before relation. c) Compare Centralized, Distributed and token ring Algorithms for muta	[6] [6]
Q9)		[8] [8]
Q10		[8] [8]
Q11		[8] [8]
Q12	Write short notes oni) Grid Computingii) Cluster Computing	[8]
		[8]

യയയ