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Question Paper Code: 21291

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

Eighth Semester

Computer Science and Engineering

CS 2056/CS 804 — DISTRIBUTED SYSTEMS

(Common to Information Technology)

(Regulation 2008)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. Define IPC.
- 2. What do you meant by marshaling?
- 3. Write two examples for RPC.
- 4. Define thread.
- 5. Mention the components of File service architecture.
- 6. How DNS does differ from GNS?
- 7. What is a need for logical clock?
- 8. Define election in Distributed systems.
- 9. Write two implementation issues of shared memory.
- 10. What are the services are done by the CORBA?

PART B — $(5 \times 16 = 80 \text{ marks})$

11.	(a)	(i)	Explain the characteristics of distributed systems.	(8)
•		(ii)	Discuss the various web challenges in Distributed systems.	(8)
		•	\mathbf{Or}	
	(b)	(i)	Discuss the different API are used in Internet.	(8)
		(ii)	Explain pipe and message queue IPC with example	(8)
12.	(a)	-	lain in detail the various components of RMI in java with sunple.	itable (16)
			\mathbf{Or}	
	(b)	Brie	fly discuss the architecture of distributed OS in detail.	(16)
13.	(a)		pare and contrast between DNS and GNS with their advantage dvantages.	es and (16)
			\mathbf{Or}	•
	(b)	-	lain the file service architecture in detail with its implementes and advantages.	tation (16)
14. ((a)	Desc	cribe the following giving suitable examples :	
		(i)	Global start.	(4)
		(ii)	Logical time.	(4)
•		(iii)	Mutual Exclusion.	(8)
	•		\mathbf{Or}	
	(b)	(i)	Explain the synchronization with physical and logical clocks.	. (8)
		(ii)	Explain distributed debugging scenarios with example.	(8)
15 .	(a)	(i)	Discuss the design and implementation issues of shared memoration	ry. (10)
		(ii)	Discuss the consistency in Ivy.	(6)
			\mathbf{Or}	
	(b)	Desc	cribe the distributed design of implementation issues in CORBA	. (16)

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